

10-799-747

EP 0 679 716 A1

SEQUENCE DESCRIPTION:

GATCTCAGGA TTNAAGCACA GTGCCTGGCA TACAGCAGGT GCTCAATAAA TACTTATCAA 60
ATTGGAAA 68

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SEQ ID NO:5087

SEQUENCE LENGTH:269

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06075

SEQUENCE DESCRIPTION:

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GATCAAGTT TAGTTAACT TCCACTGTTA AAATAAAGCT TACATAGTTT TCITCCTTTG 60
AAAGACTGTG CTGTCCTTA ACATAGGTTT TTAANGACTA GGATATTGAA TGTGAAACAT 120
CCGTTTTTCAT TGTTCACTTC TAAACCAAAA ATTATGTGTT GCCAAAACCA AACCAGGTT 180
CATGAGTATG GTGTCTATTA TAGTGAACAT GTACTTNGAG CTTATTGGTT TTATTCTGTT 240
ATTAGATNTT TCAGGGTGTA AACANGNNN 269

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SEQ ID NO:5088

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06076

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SEQUENCE DESCRIPTION:

GATCGGCAGG GCAGGAATCT GAGCGCTGGC CCCGTGGTGA GGCCATGTTT TCATAATCAG 60
GCTCCAGCCA GAAAAATAAG AAACACCGCA ACAGGCTTCA GTATCAGGGC TGAACCTGCT 120
GGATGANTAA ACTATTTATT AAAAACGGAA A 151

30

SEQ ID NO:5089

SEQUENCE LENGTH:267

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35

CLONE:HUMGS06077

SEQUENCE DESCRIPTION:

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GATCTTGGCT TAATTTAATG TATTAATCTG TTTGTGCAAA CATAGTACCA CCATTTAAAA 60
ATGTTAGGGA GATGAGTTGC AGTTTTTATA ATAGATTTT TTTAAAGTTT GGTATTGTAA 120
ANCATTCACA CCTCTGTCCC TCAAANTGN TAATTACGGT TAAAGTGCAG TCATTTGTGG 180
NTAGAATCTT GTTTNGTTGC TNCCATTATT GGGGTCCNCC NAAGGAATTG AGGAGAGGNC 240
CGAATAGAGC CCAATTCNTA TAANGAN 267

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SEQ ID NO:5090

SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06078

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SEQUENCE DESCRIPTION:

GATCTCAGGG AAAAATTTTA ATCACTGTGT ATAATGATAC TGAACCTTGA TTAATAACAG 60

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AAATTCAGGA TGTAAGCCA CAGAATGGGN TTTATTAATG TGGGATACCT CAGACTGTTT 120
GTTTTCTTTC TGGGNAGCAA AGTGTGTTCT ATAATGAATA AATATAGAGT GGTTTTAA 180

SEQ ID NO:5091
SEQUENCE LENGTH:121
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06079

SEQUENCE DESCRIPTION:
GATCTTCCTG GNACCTGAG GGTGCTCTC CAGCAGGGGC TTCTTNGACC CCTGTCTGAG 60
GGGTCGCGTC TTAGTGGGCG GGATTCTTTT CCCTTTGAAT AAAAATGGAT TCAAACCCAA 120
A 121

SEQ ID NO:5092
SEQUENCE LENGTH:378
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06080

SEQUENCE DESCRIPTION:
GATCTGTNTT GTTCCTGCAG CAAAAATCCT CTATGGACAT AGGAGGTGCT GTGTCCCATG 60
CCCTCTTGCC CTGNCAGTGT CCCATGGGCC CCCTTCTGCT CCCTGCCCCC TCCCTGCTAC 120
TGCTGATGCA CTGTCTCTC CCTGCAGCCC CTGGCTTCEN AGCCTTCCTC CTGACCCCTT 180
CCAACAGCCT TGGAACTCCA GCTGCCACCA CCCTNTGGGT CGGACACTGG GACCCANTGG 240
NCCAGTCTTG GNTGCTGNTT ACCCCTAGCC TTGATGNCTG CCCAGGGGAC CCCNAGCCCN 300
CTTCNGTTGN CNTGCAGCTT TAACAGAGTG AACCATGTGT ATTGTACAGG CGGGGGTTGT 360
TAATTGNAGA AAACNNAN 378

SEQ ID NO:5093
SEQUENCE LENGTH:81
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06081

SEQUENCE DESCRIPTION:
GATCACCA CTGCACTCCA ACCTGGACAA CAGAGCAATA TTGTGTCTCA AAAATAATA 60
AATAAATAAA TAAATAGTAA A 81

SEQ ID NO:5094
SEQUENCE LENGTH:302
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06083

SEQUENCE DESCRIPTION:
GATACCCCGG AAGTTCAGGC TGAATTCTGA AGGCAAACTT GAGCAGACGG TCTCCATGGC 60
AACCACGACA CAGCCAATNA CTCAGCATCT TCACGTCACC TACAAGAAGG TGACCCCGTA 120
AACCTAGAGC TTCTGGAGCC CTCGGGAGGG CCTGGCTACT GTGCCTCAAC GGTTCCGGCTC 180

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CTCAACAGAC AGTCCCTGCG GCAGAAAGTGG GTGTGGCCGT GAGCCTCTGC AGGCTCAAGA 240
GTGTTGTCCA GATGTTTCTG TACTGGCATA GAAAAACCAA ATAAAAGGCC TTTNTTTTAA 300
AA 302

SEQ ID NO:5095

SEQUENCE LENGTH:55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06084

SEQUENCE DESCRIPTION:

GATCTGACTT CAGTTGTGCA GATNACAGCA TGATAAATGA GTCGGGACCA TCAAA 55

SEQ ID NO:5096

SEQUENCE LENGTH:145

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06085

SEQUENCE DESCRIPTION:

GATCAACAGA TGCTGGCAGA AATGGCTGTN TCCCTGGCCT TGAGAAGCAG ATNCAGCTCC 60
CTGTCCCCAG AGGCCTACAG TCATATGGTA CCNCCACAGN CTCGCTTGGN TGCCTACAG 120
GAGGCGGCGT CANGGAAGCT TNCTN 145

SEQ ID NO:5097

SEQUENCE LENGTH:199

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06086

SEQUENCE DESCRIPTION:

GATCTCATGA GAATTCACCTC ACTATTATGA GAACAGCATG GGGAAAAACN CTCCCATAAT 60
TCAATCACTN TCCTCTCTCC ACACGTGGGG ATTACAATT GAGACAAAAC CTGGGTGGGG 120
ACACAGAGCC AGACTATATC AGGGGGCTTA TGTTTATCCA NTTGTNATGG CCTCACTTNT 180
TGNAAGACT GTNCTNNCN 199

SEQ ID NO:5098

SEQUENCE LENGTH:249

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06087

SEQUENCE DESCRIPTION:

GATCACAGAC TGTAAGATT TGAAGAGTCA CTTTTATTTT NAATTATTN ACATATGCAA 60
CATGAAGAAA TCGTGTAGGT GGGTTTTTTT TTNAATAAC AAAATCACTG TTAAAGAAA 120
CAGTGGCATA GACTCCTTCA CACATCACTG TGGCACCAGC AACTACTTCT TTATATTGTN 180
CTTCATATCC CAAATTAGAG TTTACAGGGN CAGTCTTCAT TTACTTGTA ATAAANTATG 240
ANTCTCAAA 249

SEQ ID NO:5099

SEQUENCE LENGTH:109

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06089

SEQUENCE DESCRIPTION:

GATCTGCAGT CCTGCCTCTG CCACAGTCTC TCTGTTGTCC CCACATCTAC CCAACTTCCT 60

GTACTGTTGC CCTTCTGATG TTAATAAAAG CAGCTGTTAC TCCCACAAA 109

SEQ ID NO:5100

SEQUENCE LENGTH:341

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06090

SEQUENCE DESCRIPTION:

GATCACGGAC GTGCAGCTCG CCATCTTCGN CAACATGCTG GGCCTGTGCG TCTTCTTGCT 60

TGTCGTTCTC TATCACTACG TGGCCGTCAA CAATCCCAAG AAGCAGGAAT GAAAGTGGCG 120

CTTTCTCCGN CCCAGGGTTC CAGGACATAG TCTGAGGCAA GATGGAGGGT ATGTGGGGCC 180

TTCACTTTC ACTTCATCCC TTCTACCCAT CACANCATAC AAAGCANCTA CACCTGGATT 240

TTTCCAAACA ACTTTTATTT CCTCAGAGTC NGNNGNAATN CTATGGNNCA AGANGCTGNC 300

ACTGAATAGG GCCNAGTATA GGGGCTTGCT TTTCTACTCT N 341

SEQ ID NO:5101

SEQUENCE LENGTH:117

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06091

SEQUENCE DESCRIPTION:

GATCTGGTAC CGCAGTAGCG CCGCCGCCGC CGCCGNCGGA GCCTGTCGTC GTCCTGTCCC 60

CAGCCTNCTT GTGTCCCGTG AGGTTGTCAA TAAACCTGCC CTCGGGCTGC CGGCAAA 117

SEQ ID NO:5102

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06092

SEQUENCE DESCRIPTION:

GATCCAAAAG GACTCATCTA AAACACAAGT TGGGTAGAGG AGATAGGTGA GTACTATTAT 60

ATTATGTTCA TGGAAAATNA GTTCATGGGC TTTCCTCTAA TTTTATTTT AAAAATAAAT 120

GTAAATATTA AATAAAATTT TTAAATGAA A 151

SEQ ID NO:5103

SEQUENCE LENGTH:86

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06093

SEQUENCE DESCRIPTION:

GATCAGCTTT TAATATCTGT CAAATAAAAA TTGAAATTGA AGATGGTATA TAAGATTCTA 60
 GNAAATAAAC TACTCTGAAT ACTAAA 86

SEQ ID NO:5104

SEQUENCE LENGTH:210

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06094

SEQUENCE DESCRIPTION:

GATCTAATCC GTNTCCCACA TGTCCTCAGGG AATCCNAGGT CTGCCCTGAG CTTCTGTGT 60
 CCTTGGNAAA GTCGGTTAAT CTCTGGGCCT CACTGTCCTC ATCGCTGAGC TTGGGGACTT 120
 GTAACANATG ATTTCTAAGT ATCTNCCAGC TTTGANTAGA GCATTTGTNT TGGGTGGCCA 180
 GGCTTAANGT TTAAAGGCAT AANGAAAANN 210

SEQ ID NO:5105

SEQUENCE LENGTH:242

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06095

SEQUENCE DESCRIPTION:

GATCATATTG GTCATGTCTA TTGGTGTATT ATTTCAAGTAT CACCAATGTT TTCAGAAATA 60
 CAGTACTAAT TCATCATTAA ACTCTTTGAA GTTAATATTT TCCTGCCTTC TAACTTATAG 120
 ACTCAACTAT GTATCTGTAG TTTTGGGAA TGGGGTGGTG TTTTNNCTT TGTGTTGGGA 180
 AGTTATTGAG AAAACCTATA TAATANAATT NAANATTATA GTTTAAAAA AANNNCANNN 240
 NN 242

SEQ ID NO:5106

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06097

SEQUENCE DESCRIPTION:

GATCTGCCCT TGGCCTCCCA AAGTGTCGGA ANNACAGGCA TGNCCACTG AGCCTGANCC 60
 ACTTTAGCTA TTTTAAAAA TAGGACCTAT TGTTTTGGAT TACTATCTGA GAATTCATG 120
 GATTCACCTC TGGGTATAGG AGNTAAGAAT ACGTTTAATT CATAACTTTT ATATTANCCA 180
 ATATAGTAAA AAAATAAAGC TCACACATAC ANAANCAAA 219

SEQ ID NO:5107

SEQUENCE LENGTH:227

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06098

SEQUENCE DESCRIPTION:

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5 GATCTATTTT TTGGGCTTTT AATATTCTGT TCCATTGACC TATNTCNCCT NTCTTTTACC 60
 AATACCGCAA CATCTTGGTT ACTGTAGCTT CACGGTAAGT CTAAAACTT GGATATTGTC 120
 AGTCCTCCAA CTATGTTCTA CTCCTTCAAT ATTGTGTTGG TTATTCTGAG TCTTGNNGGG 180
 TCTCCATATA AATNGTAGAA TTAGAAAAAA AANNGNGGGG GGGANNN 227

10 SEQ ID NO:5108
 SEQUENCE LENGTH:135
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06100
 SEQUENCE DESCRIPTION:
 15 GATCAGTTTG GACTCTGTAA CTCATAGGTG CATTCTTTT TTCTTTGGTG TCTCACAAAT 60
 NACCCAATTG TTGAATAAAA CTATAAATAT GTTAATACCA GCTTTTTCCTA ATAAAAATAAC 120
 AAATGTTACA TCAAA 135

20 SEQ ID NO:5109
 SEQUENCE LENGTH:167
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06101
 SEQUENCE DESCRIPTION:
 25 GATCTNATGG GTTAAAAAGN GCGGCATTTC CCTCCNCCTT CTCCCTCTCC TGCACCATGT 60
 TAAGATGTGC CTTGCTTCCC CTTGCCCTC GACCATGATT GTAAGTTTCC TGAGGCCTCC 120
 CCTGCCATTC AGAACTGTGA GTAAATTAAA TCTCTTNCCT TTATAAA 167

30 SEQ ID NO:5110
 SEQUENCE LENGTH:101
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06102
 SEQUENCE DESCRIPTION:
 35 GATCTTCTGC CACCATCAGG GNCAACGGG TGCAGGAGGA AAGTCACTGA TGCCCGATG 60
 TTTGCNTCCT GCACAGCTAC AGGTCCTTAA NAAAAAGTNT N 101

40 SEQ ID NO:5111
 SEQUENCE LENGTH:172
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06103
 SEQUENCE DESCRIPTION:
 45 GATCTGTGGC TACTTTCACA CCACAACAGA GTACCATGGT TCTGACAGAG ACTAGGAGAC 60
 ACAGTCTAAA TGACTTCTGA CCTGGACCTT TACTGAAAAT CCTGCCAATC ATTCTGTTGG 120
 CAAGANTGAT GTATTACTTT TAGCAATAAG AAACAAGTAA CCTTTGCAGA AA 172
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55 SEQ ID NO:5112

SEQUENCE LENGTH:74
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 5 CLONE:HUMGS06104
 SEQUENCE DESCRIPTION:
 GATCTCCAAA GCTGTCCTCT GGCCTCCAGG AGTGCCTCTT ATGTGAGTCC TAATAAACTC 60
 ATCTATTAC CAAA 74

10 SEQ ID NO:5113
 SEQUENCE LENGTH:134
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 15 CLONE:HUMGS06105
 SEQUENCE DESCRIPTION:
 GATCTNTTCC CACCCATAAA AAGCCCAGAG AACAAAAAGT TGGCCCAGGA AATGCAATTN 60
 GGAAGCTGAA GAAGATTATA GTATTNTNG CAGTCAAGAT TTGAAAAGTT ACCNACTAAG 120
 20 AAGCTACAAT ATNN 134

SEQ ID NO:5114
 SEQUENCE LENGTH:186
 SEQUENCE TYPE:nucleic acid
 25 TOPOLOGY:linear
 CLONE:HUMGS06107
 SEQUENCE DESCRIPTION:
 GATCTTGAAA TNAACCTAAG ATTTTCCTGG GGAAATGTTT AGATACAGTT TTGTGAACTG 60
 30 TAAATCAAAA TACCTTTTNC TACAGTTTAT CTTNATNTC CTGCAAAATTT AGGAACATAT 120
 TTCCTCGTTT NCACATTGAA TCTTAAGTTT AAGCNCTTCA TTTGGNATTT NGGCAATATA 180
 TGNGAN 186

35 SEQ ID NO:5115
 SEQUENCE LENGTH:275
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 40 CLONE:HUMGS06108
 SEQUENCE DESCRIPTION:
 GATCTTTNTG ACTAGAGTTA GTGTCTTAGG AAAACCAGAA CTCAGAACTT GCCTCCATGG 60
 TTGAGTAACA AGCTGTACAA GAACCCCTTT TATCCCTGGA AGAGGCTGTG TATGAAACCA 120
 ATGCCAGGG TTTGAAGGGT GTTAGCATCC ATTNCAGGGG AGTGTGGATT GGCTGGCTCT 180
 45 CTGGTAGCAT TTTGTCCTNA CACACCCATC TACTATGTCC AACCGGTCTG TCTGCTTCCC 240
 TCACCCCTTG CCCAATAAAG GNCAAGNNCT TCAAA 275

50 SEQ ID NO:5116
 SEQUENCE LENGTH:122
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS06109

SEQUENCE DESCRIPTION:

GATCGAGTGG TCTGTGTTCC TATTGCTGGT GGGGTGATAG GGTGGGCTAA AAACCATGCA 60
 CTCTGGAATN TTTTGTATTT TCTCCAGTA AAGCTTTTCT TCTCCGAAA AAAAAAAGA 120
 AA 122

SEQ ID NO:5117

SEQUENCE LENGTH:94

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06110

SEQUENCE DESCRIPTION:

GATCACAAC TACAGCCTGC AGGCCAAATC CAGCCACAG CCTGTNTTG TAAATAAAGC 60
 TTTGTTGGAN CAAAGCCACA CCCCTTAATC TAAA 94

SEQ ID NO:5118

SEQUENCE LENGTH:80

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06111

SEQUENCE DESCRIPTION:

GATCTGAATC CAGNTCATT GAGGGAACCC CCAAGGTTCT CTGGTTGTGG CCTCTTGAAT 60
 AAACCTCTCA CATTGGAAA 80

SEQ ID NO:5119

SEQUENCE LENGTH:274

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06112

SEQUENCE DESCRIPTION:

GATCTATTAT CTAGCTGCAA AGCCTGGCTT TGNTTGNAA TTTTGTA AAA ATTTCATGGC 60
 ACCCAAGGTT TCTGNTTCTG ACCCAGCAGT GGTCTGAAG AGAGCTGATG GCAAGTNTTG 120
 TAGTCATTTT GATTTTAATT GAAGGGTGAG CATAACCTTG TGAACCAGCA CTAGCTTGTT 180
 CCAAGCTGGA ATTTATCTAA TCTATTTTGG TGTTTAAAAA AGCTGTACCT ACCAAATAAA 240
 TAAATAGTTT ATAAAAATGTA TTACTTAAGG TAAA 274

SEQ ID NO:5120

SEQUENCE LENGTH:350

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06113

SEQUENCE DESCRIPTION:

GATCTTTGAA GATATCCTCA ACGTGAGGCT CTNCTGCCAT GAAGGTGAAG ATTAAGTGCT 60
 GGAACGGCGT GGCCACTTGG CTCTGGGTGG CCAACGATGA GAACTGTGGC ATCTGCAGGA 120
 TGGCATTAA CGGATGCTGC CCTGACTGCA AGGTGCCCCG CGACGACTGC CCGCTGGTGT 180

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GGGGCCAGNG NNCCCACTGC TTCCACATGC ATTGCATCCT CAAGTGGCTG CACGNACANC 240
AGGNGCAGCA GCACTGNCCC ATGGTGCCGN CAGGAATGGA AGTTCAAGGA GTGAGGCCCG 300
ACCTNGNNTC TAGNTGGGAG GGGNATNCTG AAGACTTCTT TNCTTNATTN 350

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SEQ ID NO:5121
SEQUENCE LENGTH:360
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06114
SEQUENCE DESCRIPTION:

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GATCTTATTC AGTCTGCTGN TTTGTATAGT GTGATGACCC TAGTAAGCAC ATATTTGGTA 60
GCCTTTGTCAT ACAAGANTGT GAAATTTGTT CTCAAGCACA AAGTAGCACA GNAGNGGGAA 120
GATGCTGTTT CCAAAGAAAGT GACTCGAAAA CTTTCTGAAG CTGATAATAG AAAGATGTCT 180
CGGAAGGAGA AAGATGAAAG ATTCTTGTGG AAGAAGAATG AAGTNNCINN ATTATGAAGC 240
TACANCANNT TCCATCTTCT ATAACAACAC TCNGTTCCTG GTCGTNGTCA TTGTTGCTTC 300
CTTCTTCATA TTGGAAGAAT TTCAACCCCA CAGTGAACCA CANATTGTGTC CATAAGTTGN 360

SEQ ID NO:5122
SEQUENCE LENGTH:88
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06115
SEQUENCE DESCRIPTION:

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30

GATCTGGTCA CACCTAAAGT CATTAAAAATC ACTGAAATGT TTAGATACAC AGCCCAATAA 60
ATTCTCTTTA TAAACACAA GCAGTAAA 88

SEQ ID NO:5123
SEQUENCE LENGTH:177
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06116
SEQUENCE DESCRIPTION:

35

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GATCAGGCCA CATAAGGAAC AGGGGAATTC CAGGGGTGGG ACACAGCTNG GGGAGTCCAG 60
ACCAGGGCAG GGAAAGGAGA CTCACAAGCC AAACAGAGCT GCTTTGGGGA AAGTTCTTAT 120
CAGCTGGTGC TGCTTCCTGA GCCATATGCC CATTCTCAA GCTGTACCCN NNNNNN 177

SEQ ID NO:5124
SEQUENCE LENGTH:60
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06117
SEQUENCE DESCRIPTION:

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GATCTTGGAC CTCCAGCCT CCAGAACTGT GAGAAATAAA TNTGTTTTGT TTCAGCTAAA 60

SEQ ID NO:5125

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SEQUENCE LENGTH:54
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
5 CLONE:HUMGS06118
SEQUENCE DESCRIPTION:
GATCTGGCTG ACTCACACGC GACTGGAGAA TAAACAAACA GCAACATAAG GAAA 54

10 SEQ ID NO:5126
SEQUENCE LENGTH:316
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06119
15 SEQUENCE DESCRIPTION:
GATCTCCCAT GGGTCACCCA GGTCTATGC CTCCGCATGG TATGCGTGGA CCTCCTCCAC 60
TGATGCCCCC CCATGGATAC ACTGGCCCTC CACGACCCCC ACCCTATGGC TACCAGCGGG 120
GGCCTCTCCC TNCACCCAGA CCCACTCCCC GGCCACCAGT TCCCCNTNGA GGCCCACTTN 180
20 GAGGCCCTCT NCCTCAGTAA ATTCACATTT TNCCTCCTNC TGTACATTT TNCNAATATN 240
TTTTCTATTC CTTGGACCAA TCAGAGATGC TGTAGCTTNC TTGGGGCAAA GGGTACTAAA 300
TCNCNTTTNA GCACNN 316

25 SEQ ID NO:5127
SEQUENCE LENGTH:222
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06122
30 SEQUENCE DESCRIPTION:
GATCCTGTTC CTGTACCAT TGCTCTCGAT TCACTCAGCT GGCTGCTACT TCGCCTTCCC 60
TGCACCACAC TCTGCCAGGT CCTGCATGCT GTGAGCCATC AGGACTCTTG TCCTGGTGAG 120
ACCCCTCCTT CATTGTTTCC CCTCATACAT CTCCCTCTGC CAAGGAGTGT GCCCCTTTTC 180
35 CTTTCTACCC TAGAATAAAC ATCTGGGTTT TCCAGTCAGA AA 222

40 SEQ ID NO:5128
SEQUENCE LENGTH:130
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06123
SEQUENCE DESCRIPTION:
GATCGACTGG AACAAAGTGA CCGCTGNGTA AAATACTGC CTTGCCACTC ACTGTTGTAT 60
45 ACATTTCTTA TTTACGATTT TCATTTGTTA TATATATATA TAAANATACN GTATANANAT 120
GCAACATANN 130

50 SEQ ID NO:5129
SEQUENCE LENGTH:160
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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EP 0 679 716 A1

CLONE:HUMGS06125

SEQUENCE DESCRIPTION:

5 GATCTTAGAG CTAAGGGA CTGTAAAAAT TACCCAGAAC AGCGTCCTCA GACTTAACCT 60
TCTGCAAGTT ATGTCTGTAT ATAAGANGAT TCTAATTGCT AACTGTTTAT ACTTNCCTGN 120
ATAAATAGT TGTTCCTAAT TAAAANGTAG CCAAGCTAAA 160

SEQ ID NO:5130

10 SEQUENCE LENGTH:349

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06126

SEQUENCE DESCRIPTION:

15 GATCTTCGTT CAGGGCATCA TCTGGGACAT CAACAGCTTT NACCAAGTGGG GAGTGGAGCT 60
GGGAAAGCAG CTGGCTAAGA AAATAGAGCC TGAGCTTGAT GGCAGTGCTC AAGTNACCTC 120
TCACGACGCT TCTACCAATG GGCTCATCAA CTTTCATCAAG CAGCAGCGCG AGGCCAGAGT 180
CCAATAAACT CGTGCTCATC TGCAGCCTCC TCTGTNACTC CCCTTTCTNT TCTCGTCCCT 240
20 NCTNCCCGGA GCCGGCACTG CATGTTCTTG GACAACACCC AGAGCACCT NTNGTTGTGG 300
GNTTTTGNNC NNCGAGCCCT TTAGCNGGGA ANGNCCTGGT CTTCCNCCAN 349

SEQ ID NO:5131

25 SEQUENCE LENGTH:148

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06127

SEQUENCE DESCRIPTION:

30 GATCCTCAAG GACCTGTAAT TTTTGGTAT TTAATAATTA AATAACATTA TTTTATTTT 60
GANTTTTTT CAAACAGTAA GAATAATATA TCAGCAGCAT GTATCTGCCA ATCATATGTA 120
ATAAATNTT TATTTTGCCA AAACCAAA 148

SEQ ID NO:5132

35 SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06128

40 SEQUENCE DESCRIPTION:

GATCTAATAC AAGANCTAGC AAAGCAAAAG TTTTGCAAG TGACAGCATA AAGACGGANC 60
ACAACAAATC CTTCTGNAG TGAATTAGGA AACTCCANGG N 101

SEQ ID NO:5133

45 SEQUENCE LENGTH:347

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06129

50 SEQUENCE DESCRIPTION:

GATCCTCATT CTTTCCCCG TACAGTGGAA AACATCTTN ATGTTTCCTT CATTATACGG 60

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EP 0 679 716 A1

GATGGTTTTN CAAGAATAAG ACTTGACCAA GACCGACTGC CAGTAATAGA GCCTGTNAGT 120
 ATTAATGAAG AAAATNAGGG ATTTGAACAT AACACACAAG TTAGAAATCA AGGAATTATA 180
 GCTTTGAGTT ACCGTGACTG GGNGGNGATT GTGAAGACCT TTTGAGATT CAGAGCCTGT 240
 5 GATTACTCCA AGTCAGAGGC AGCAGNNGNC AAGTNCCTTG NTTGCTAGCT GAAAGGACTT 300
 AAATGGNTAG TGAAGGTCCA AAACCGGGNA AGCGGCATNG TGTTGGN 347

SEQ ID NO:5134

SEQUENCE LENGTH:72

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06130

SEQUENCE DESCRIPTION:

15 GATCACACTG CAGTTTCCAT GTTAGCACTG TGGATGGGTT TTNAATCAAT AAAAAGTGGG 60
 GGTTTCTTCA AA 72

SEQ ID NO:5135

SEQUENCE LENGTH:203

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06131

SEQUENCE DESCRIPTION:

25 GATCTGTAAA ATAAAACTC AGCTGGGTCC AGATATCAGG TGTCTAAAT CTAAGAATGT 60
 AAGAACAATC TTAATAGAAA TATGTNTTAA ATAAGTGGCT AATATCTACA AATAGTACCT 120
 TTGCTAAATG ANTTCCTTTT NATGACTATN TTGTTTTTNA GNAATTGGGT GAAAAANNCAA 180
 CTGANATGAG ATTATTTATN ATN 203

SEQ ID NO:5136

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06133

SEQUENCE DESCRIPTION:

35 GATCTTAGAT TTNATGAAGC ACAGTATGCA GGTAGGCCTA ATGGGGGAAG ATGGTAATAT 60
 AAAAGCAAGA AGTATTTTTT TTTTGAAT GCCTGAANGC TGTNCTGNGG NTGCCCTCCC 120
 40 CTNCCCTTN 129

SEQ ID NO:5137

SEQUENCE LENGTH:270

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06136

SEQUENCE DESCRIPTION:

50 GATCACCTGA GGTCTGGGAGT TCGAGACCAG CCTGACCAAC ATGGAGAAAC CCCATTTCTA 60
 CTAATAATAC AAAATTAGTC AGGCATGGTG GCGCATGCNT GTAATCCCAG CTACTTGGGA 120
 GGCTGAGGCA GAAGAATCGC TTGAAACTGG GAGGCGGAGG TTGCGGTGAG CCGAGANCA 180

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GCCATTGCAC TCCAGCCTGG GCAGCAAGAG TGAAGCTCCA TCTAAAAATA AATAANTAAA 240
TAAATAANTA ANCCCTCANA NNNAAAAATN 270

5 SEQ ID NO:5138
SEQUENCE LENGTH:51
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS06137
SEQUENCE DESCRIPTION:
GATCTGTAGG GGAGGGAGTT CAAATAAAGC TTTATTTTTT TCATTTTCAA A 51

15 SEQ ID NO:5139
SEQUENCE LENGTH:190
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06138
20 SEQUENCE DESCRIPTION:
GATCTGGGCT CCTGACTTT CTGAAGCTAG AAAAAGGTTG TGTCTCCAA CCACCTTTC 60
ATCCCCAGCC CCTCTCATCC CTGGAGCACT CTGCCGCTCA AGAGCTGGTT TGTTAATTAT 120
TGTTAGACTT TGCCATTGTN TTCTTTTGTA CCTGAAGCAT TTTGAAAATA AAGTTTACTT 180
AAGTTATAAA 190

25 SEQ ID NO:5140
SEQUENCE LENGTH:199
SEQUENCE TYPE:nucleic acid
30 TOPOLOGY:linear
CLONE:HUMGS06139
SEQUENCE DESCRIPTION:
GATCGGGAGG ACCTGTATGC CTGACCGTTT CCCTGCCTCC TGCTTCAGCC TCCCGAGGCC 60
35 GAAGTCTCAG CCCCTCCAGA CAGGCCGCTG ACATTGAGCA GTTTGGCCTC TTTCCCTCTG 120
TCTGTGCTTG TGTGTTGAC CTCCTGATGG CTTGTCATCN TGAATAAAAT ATANTAATAA 180
ATTTNGTATA AATAGGAAA 199

40 SEQ ID NO:5141
SEQUENCE LENGTH:312
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06141
45 SEQUENCE DESCRIPTION:
GATCCAACCA CTCAGCCTC CCAAAATGCT GGGATTATAG GCGTGAGCAC TTGCACCTGG 60
CAAAAAAATT TTTTAAAAA AAGGAGAAAAG CAGTTTAACC ACAAACAGTG AAACAGAGCT 120
GGCAGACGCC TGAACCTCCA TGGAACCATG CAGCTGTACC CTAGGGCTCC TCCAGGAAA 180
AGAGAGATGT CAACGTGGCC CAAGGTGTCC TGAAGCACTG GGATTGGNTT ANCTCGAGCG 240
50 NTGGCCTTCC CAGCCCTNCG TGCTGCAGAG CCTCTGCTCG CTAGGCTNCC TTCATNCTNA 300
CTCTGTGTGC TN 312

55

SEQ ID NO:5142

SEQUENCE LENGTH:229

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06142

SEQUENCE DESCRIPTION:

GATCTAAGAC AGCAAAGAAG TGTGCAAGGA GGGCCCTGTT AGCTCCCACT GTCCTGGTTT 60
 CTCCTCCTGG AGTCTAATTT CCTTGGCCCT CTGAGCCTTT TGAGTCTGGG CCCTGGTCCA 120
 ATGCTGCTGT TGTCTGAGGA ATGGTTTGGT GAGAACAGAT GTTAGAACTT GTTTGTTGAT 180
 TCTTGTCTGG CTAATAAATC ANCACCAACT GNCTTCTCCN ACAGGGAAA 229

SEQ ID NO:5143

SEQUENCE LENGTH:332

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06144

SEQUENCE DESCRIPTION:

GATCTAAGAT TATTTCCCATG AGAAATGTTG AATTTATGAA GAATAGATTT TAAGGCTTTG 60
 AAAATGGTTA ATTTCTCAAA AACATCAATG TCCAAACATC TACCTTTTTT CATAGGNGTA 120
 GACACTAGCA AGCTGGNCAA ACTATCACAA AAGTATTTGT CACACATAAC CTNTGGTCTG 180
 TTGCTGATTA NTACAGTACT TTTTCTTTGT GTGATTCTNA ACATTATAGC ACAAGTATTA 240
 TCTCAGTGGG TTATCCGGAA TAACATCTGA AAGNGGGGTT CATCTNTGGT NNGTTTGTCT 300
 CNNTAAACTA GNGTNTCTCC TGGTCCCAANT GN 332

SEQ ID NO:5144

SEQUENCE LENGTH:275

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06145

SEQUENCE DESCRIPTION:

GATCACATCA CGGAATATTC TTTGCCTTTC CACTTTCCAG GAAATCTCTC GGACTGGGCT 60
 AGCCTCCTTG TGTGTGATGA AAGATGGGCT ATATTCAGA ACANAGTGCT GTGTTGTCAT 120
 GATTTGCCTG GACTCCCAGG GCGTCTCTTA CCCAACTGA TAACGATGCT GTTCATTAGC 180
 AGCCTGTGTT AACTGATAAC CAAGAGCGGT AATGTGATAC TCATAAGCAA TTTTCTGTGT 240
 GTAGGATAAA ATANNCCATC TTGTATNATT NCAAA 275

SEQ ID NO:5145

SEQUENCE LENGTH:92

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06146

SEQUENCE DESCRIPTION:

GATCTCTTTT CAAGTTCAC TATTCTTCT TCTGTAATGT TCAATCTCTC TTAAGAAAAGT 60
 CCAAATAAAT TTTTCATTTT AGAGAGTGGG AA 92

SEQ ID NO:5146

SEQUENCE LENGTH:323

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06148

SEQUENCE DESCRIPTION:

GATCTGGGCA TTAAGTCAGT GGCTTTGCAT AGCTTTCACA AGTCTCCTAG ACACTCCCCA 60
 CGGGAAACTC AAGGAGGTGG TGAATTTTAA ATCAGCAATA TTGCCTGTGC TTCTCTTCTT 120
 TATTGCACTA GGAATNCTTT GCATTCCCTTA CTTGCACTGT TACTCTTAAT NTTAAAGACC 180
 CAACTTGCCA AAATNTTTGG CTGCGTACTC CACTGGTCTG TCTTTGGATA NTAGGNATTC 240
 AATTGGCAA AACAAAGTGT AATGTCAGAC TTTGCTGCAT NTTACACATG TGCTGATGNT 300
 NACAATGGTG NCGAACATNA GTN 323

SEQ ID NO:5147

SEQUENCE LENGTH:347

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06150

SEQUENCE DESCRIPTION:

GATCTTTTGA GTGGAGGTGG GTAGAGAGAG CAAGNAGGGC AGGACACTTA GCAGGCACTG 60
 AGCAAGCAGG CCCCCACCTG CCCTTAGTGA TGTTGGAGT CGTTTACCC TCTTCTATTG 120
 AATTGCCCTG GGATTTCCTT CTCCCTTTCC CTGCCACCC TGTCCTTAC AATTGTGCT 180
 TCTNAGTTGA GGAGCCTTCA CCTCTGTTGC TGAGGAAATG GTAGAATGCT GCCTATCACC 240
 TNCAGCACA TCCAGCGAA AAAGGGTGTG AAGNACCCAC CATGTTCTTG GAGCANTCAA 300
 GGGTTNCTAA ATNNNNCGGC TGGGACCANT NANATAGTGA GTNNNNN 347

SEQ ID NO:5148

SEQUENCE LENGTH:388

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06151

SEQUENCE DESCRIPTION:

GATCTGCCAT ACCACTGTGA CTGCATTGAA AGATGTCCCT TTCTCTCTCT GCCAGTCGGT 60
 CGGTGTGGGA CAAAACACAG ATATACAGCA GATAGCGGCC AAAAATTCA CAGACACCTC 120
 TCTCATGTAC CCAGAGGACA CTTGTAAATC TGGACCAAGT ACGAATACAC AGAGTGGTCT 180
 TTCAACACT CCTCCCCCTA CTCCACCGGA CCTCAACCAG GACTTCAGTG GATTTAGCT 240
 TCTTAGTGGG TGTTGCACTC AAACGGGGCT GCAGAGATGG AGGCTTNAGG GNANANCTTT 300
 ACAGNTTAAC CCNATTTTCA AGCANAAACA GTTCTCANGA AGTGTGATGA TTGNCCGGGG 360
 TAGAAGGGAA AGAGATTGAA TTTGCTTN 388

SEQ ID NO:5149

SEQUENCE LENGTH:308

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06152

SEQUENCE DESCRIPTION:

5 GATCTATAAT GGGATACATT GTCATCCTCT AGCAACTCCT ATATAGAAAG TTTAACTGA 60
 ATATGTTACA TATANGAATT AAATTCCTCT CAAATAATTC TTAACCTCAG TNATGAGCCT 120
 AAATTTACTC TGCTTGGCTC TCTACACATG GCATTTCAGG GTATAAGATG TAGCATTNA 180
 ATGTGTAAGA TATATGTACN NNNCATATGT GTTGCTATCN TCATCATTAA CATCCTTCTT 240
 TNCTATTGCT TGGCTGTAAT TTTTGTAAG ATAAATTATA TTGNTNNNT GTATGTGTGT 300
 10 TTGTAGTN 308

SEQ ID NO:5150

SEQUENCE LENGTH:316

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS06153

SEQUENCE DESCRIPTION:

20 GATCTGTCCT GTGAGGCATT TAGGGGCTTT CAGGAATTTA GTAAAAGGTG GAGTATGCCT 60
 TTCCAGTATC TTCCATCTTC CTTTGTATAC TTGTCCTTCC TCCCATTTCC TCCCTTTGGC 120
 CCGAGGTAGG AGGATGGAGG GAGGCTGCTA CTCTACCACT TCCTGTGTGC CTCTACTGTG 180
 GCCTCAACCC TGGCAATTAT AGCTACTCCC ATCCCTTACC TGGGCATGTG TGAGCCCTTC 240
 TCACTGGATT TTATACCCTT GTGTCTGTGT ACATAAATAT ATATACATAT ATATATACAT 300
 25 AAAANCCTTG TACAAA 316

SEQ ID NO:5151

SEQUENCE LENGTH:66

SEQUENCE TYPE:nucleic acid

30 TOPOLOGY:linear

CLONE:HUMGS06154

SEQUENCE DESCRIPTION:

35 GATCAGGCAG GAGAAAAACT TTAGATGGGA GTCTTGTCTCAT CAAAAATAAA TACAGTTGCA 60
 TGGAAA 66

SEQ ID NO:5152

SEQUENCE LENGTH:311

SEQUENCE TYPE:nucleic acid

40 TOPOLOGY:linear

CLONE:HUMGS06155

SEQUENCE DESCRIPTION:

45 GATCAGGACA AGAGCGANGC ACCAGGGGAG CTCTCTCCCA AAGGCCTTGT CGCCCCAGAC 60
 CTAACCTGCT CCCCTCAAC CTGCTGAGG AAGAACTCT CAGGATTGCA CGGATATTTT 120
 CTCTCAGTA CTCCAGAAA GACTGACGCA GCCTGAGGGG CTGGGGTTGA AGGAGACACC 180
 TGCCANCNN NCGTCAGNTT TGTCCAGCTT GCAGGAGGCA CCAGGTCTGG CTCCTTCAGG 240
 GCTGTCACAG TCCTGAAACC ACCACTTGCC TAGGTCACGG ATGCCTNAAG AGACCCGGTN 300
 50 AGGCTAGATN N 311

SEQ ID NO:5153

55

EP 0 679 716 A1

SEQUENCE LENGTH:111
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06156
SEQUENCE DESCRIPTION:
GATCTAGGGC TGGCCCTAG TGAGTGGGCT CGAGGGAGGG TTNCCTGGGA ACCCCAGGAA 60
TTGACCCTGA GTTTTAAATT CGAAAATAAA GTGGGGCTGG GACACACGAA A 111

SEQ ID NO:5154
SEQUENCE LENGTH:274
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06157
SEQUENCE DESCRIPTION:
GATCTCCTNN TCCAGTGCTG CACACTCCTG TTTTGGAAAC TTAAATAGCG TTGCAACGAA 60
ATCCTATATC CAGTTTCCTG TAATTTANTT GAAGAAAAAT ACATCCAAAT AAAGACTTTA 120
TTATTAACAG ACCAGATAGC ATCAGAAATC ATGTGACTGT TNGCTTATC AGANTATGTC 180
TNAACNTTTT AGGGCAAAGT TAACACTGAA AGTTCTAGCT TAAGTGTTGA NCCTNTNGTG 240
GGAAAAANAA TTCCACTTGT GAAACNTCAG GCTN 274

SEQ ID NO:5155
SEQUENCE LENGTH:155
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06158
SEQUENCE DESCRIPTION:
GATCACTCTG GTGCGGGTGT TTGGTTTTGT TTTAAATAG CTTTGCACTG AAAGCTTTCA 60
TGACCATACA AATNATCTTT TTTCTTCCTA TTTCTTGTA GAGGTTTTTT TCCTCCTTGT 120
CTTAAGGTCA TAAAAATATT GTTATGTGGG ACAA 155

SEQ ID NO:5156
SEQUENCE LENGTH:369
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06159
SEQUENCE DESCRIPTION:
GATCTGTGGC TTTGCTCCAC CATCCCTAAC CAACCTCTCA TCACAGCTTT NTGTGTGGGC 60
TGAGTGCTGG CCTTAACCCT AGGCGTGGAA GAGAAAAATG GAGGTTGTT AGATACTCAT 120
CAGGACCTCA CAGGAGCTGA GACTTATCAG CCAGAAATNG TTCTTCGGAC AGTCGTACAC 180
ATCTTACAGA AAACCTCCT TNGTAGAGTT GGNTTGTGGT ATGTGTTGA TGCTATAAAG 240
CTCATTTTTA ATGGTGACCA CCTGNTTCTA GGGNCGATTT CGTTTTGGAA GNGGGTAANG 300
NTGCNTTAAC CAGGTAACNT ATCCTTGGGN TTTAAGGTGN AAAAAATNTT CTNGNCAAAG 360
GGAANCCNN 369

SEQ ID NO:5157

EP 0 679 716 A1

SEQUENCE LENGTH:279

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06160

SEQUENCE DESCRIPTION:

GATCAAAATC AAAAGAACCG TGTAGATATA CTTNATTGTA TAAGTAGAAA ATTACTTAAT 60
TNCATACTAG AAATGGATGG ATGCTGCAAG TTGAAATGGA CTGTCCATTG ACGGTCCTAA 120
TGTGGTAGCA GAAAAANATG GTGTCTTAAG TNCTTAGNGT TTGATGTCAT TAACAGTTTC 180
GTAAACTCT ACAGTGTAGN AAGTTTTTTC AATACTAAAC TGTGCGTTGT NCATAGTTCT 240
AATGCATTGT NTTNGCCNCC CGGTACTTTC TNTNAANGN 279

SEQ ID NO:5158

SEQUENCE LENGTH:337

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06161

SEQUENCE DESCRIPTION:

GATCTCAAGT GAGATAGCAG AGCAAGATGC CAAAAGACCA TAAATAGAGT AAGGTTTCTA 60
TAGATGTNAG ACAGATTGGA GAGAGCATTT ACTCTGTCTC CCTGTGGATG AAAGTGTCTC 120
TGAAATGTTT CCAATTTTNA GGAATCTGCT TACCCNCTTC ATTATTGAC AGCTTTCCTT 180
GGTGACCCAA ACCTTGATAG CTAAGCCATT TGTCTTTTTC TCAGTGGAGG GAGTGTATGG 240
ACCTGGCCCC ATGGCTTTGC ATGTTAGAGA CCTGGCNGAC TAAAGTCNCN GGGTGTTTGT 300
TTGCTCACAT TTGCTGAGTG ACAGNTATGG TGNCCNN 337

SEQ ID NO:5159

SEQUENCE LENGTH:378

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06163

SEQUENCE DESCRIPTION:

GATCTACAAC CCCTTGGAGC AGTGTGTNA CAATNACGCC ATCGTGTCCC TNAGCGAGAC 60
CCGCCAATGT GGTCCCCCCT GCACCTTCTG GCCCTGCTTT NAGCTCTGCT GTCTTNATTC 120
CTTNGCCTC ACAAACGATT TTATTGTGAA GCTGAAGGTT CAGGGTGTGA ATTCCCAGTG 180
CCACTCATCT CCCATCTCCA GTAAATGTGA AAGCAGAAGA CGTTTTCCCT GAGAAGACAT 240
AGAAAGAAAA TCAACTTTTC ACTAAGGCAT CTNAGAAACA TAGGCTAAGG TAATATGTGT 300
ACCAAGTAGAG AAGCTGAGG AATTTACAAA ATGNTGCAGC TCCAAGCCAT TTGTATGGCC 360
CATGTGGGAG ACTGNTGN 378

SEQ ID NO:5160

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06164

SEQUENCE DESCRIPTION:

GATCAGCCCC ACCCTGGCCT AGACCAGCAG ACAGAGCCAG GAGAGGCTCA GCTGCATTCC 60

GCAGCCCCCA CCCCCAAGGT TCTCCAACAT CACAGCCCAG CCCACCCACT GGGTAATAAA 120
 AGTGGTTTGT GGAAG 135

5 SEQ ID NO:5161
 SEQUENCE LENGTH:350
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 10 CLONE:HUMGS06165
 SEQUENCE DESCRIPTION:
 GATCTCGTAA GATTAATGT AGCATTCTAT ACTCCCTACA TGCACAGTAN GATTGTGTTA 60
 ATGAATGGAA GGAAAGACTA AATACAATGT CAAATGTNAC TATTAATTGG ACAAGAAAAAT 120
 CCAAGTAGCA AATGACCATT ATGTGTAAGA CTTACTCTAA AAAGACCNTT TAAATAGCT 180
 15 CATATATTAA TNTNGTTTAA AACCTGCTAT TTTCCAAAAC TGCAAAACTA GGGCTATAAA 240
 AATCTAAGTT AAAAAATCAG CTNATCCTCA TTGGTATAGT GGTNTGGNNA AAAAAATCCA 300
 GTTTTAAACC NGNNTNNATT GANAGGNTGT CTCCATGCCT NCCATTGGGN 350

20 SEQ ID NO:5162
 SEQUENCE LENGTH:57
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06166
 25 SEQUENCE DESCRIPTION:
 GATCACTTTT ATGTAAAAAT TATAATTTAA TTAATAAAAA ATTTCTTAAG AAGTAA 57

30 SEQ ID NO:5163
 SEQUENCE LENGTH:203
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06167
 SEQUENCE DESCRIPTION:
 35 GATCAGGCCT TGGCCTCTNA GCCCTGCCTG CTCTGGGCCA TGCAGAGGAA GGACAGAGNG 60
 TGGGCGCAGG GCACCAACTC AGGGACATCC CCTCTCCTGG GCGACGTCAG TGGACCTTCC 120
 TGCACCCCCA GCCTGGAATG TAAATNAGCT GTGTGGTGCC CGCGTNGCTG GAAGGAAATA 180
 GACCCTTTN TAGCTCCCTG AAA 203
 40

45 SEQ ID NO:5164
 SEQUENCE LENGTH:274
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06168
 SEQUENCE DESCRIPTION:
 GATCCTCTGT GATACCAAAA TCCATGGATG CTAAAGTCCC TTTTAAAAA TGGCATAGTA 60
 TTTGCATATA ACCCAACAC ACCCTCCTGT GTATTTTAAA TCATCTGTAG ATTACTTATA 120
 50 ATACATAATG TAATGTAAAT GCTATAAAN TAGTTATTAG ACTGTATTTA GGAATAATG 180
 ACAAGANGAA AAAGTCTGTA CATGTTCACT ACAGAGGCAA CCTTTGTAGG TCTAAATANN 240

55

TTTTTAATAC AGNANTNNGG ATGTNAGNNN NGGN

274

SEQ ID NO:5165

SEQUENCE LENGTH:343

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06169

SEQUENCE DESCRIPTION:

GATCTCTTTT TATTTAAATG TGAATTTCAA CTTTGTGACAA TCAAAGAAAA GACTTTTGT 60
 GAAATAGCTT TACTGTTTCT CAAGTGT TTTT GGAGAAAAAA ATCAACCCTG CAATCACTTT 120
 TTGGAATTGT CTTGATTTT CGGCAGTTCA AGCTATATCG AATATAGTTC TGTGTAGAGA 180
 ATGTCAGTGT AGTTTGTAGT GTATACATGT GTGGGTGCTG ATAATNGTGT ATGTCCTTTG 240
 GGGGTGGAAA NGGATAACAA TTCAAGCTGA GAAANGTATT CTCAAAGATG CATTTTATA 300
 ANTNTNATTA ANCAATNTTG TNANAGNNNG ANGNGTGGGN NTN 343

SEQ ID NO:5166

SEQUENCE LENGTH:124

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06170

SEQUENCE DESCRIPTION:

GATCATACGA GGCATGTAAT ACCAAGAATT GTTACTTTAC AATGTTCCCT TAAGCAAAAT 60
 TGAATTTCTT TTGAACTTT AGTNATGCAC AGACTNATAA TAAACCCTCT AAANCCTGCC 120
 CAAA 124

SEQ ID NO:5167

SEQUENCE LENGTH:367

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06171

SEQUENCE DESCRIPTION:

GATCTTGGAC CCAGTCTGGC CCGTGCCAG CATGGGGCTG CTTCTCCTCC ACAGCTCCTT 60
 CCCAGAGGGC TGGGGCCTCA GCCTCCCTGC CACGTCCACT CTGGGCTGGC CTGGAACATA 120
 CTACTATGTT GACAGTAACA ATAAAGCTCC TCAGGGACCA CCGTACAGGC CCGCAGCCCC 180
 ACTGNTGCT GTTGGGAAGAA AGCTGTGGAA AGAAAGCAGG GGGNCCCTGC CCCAGGCCAA 240
 GGCCCTGCCC TTGCCACACA CGGTACACAN ATGCAGCCTC TCTNTCTCTN TGTGTCCACT 300
 TGTGAAAATA ANCTGCAGGN CTGGNTNGGA CAACAAAGGN AGNNGNACAG TGTCTNGGNN 360
 GGCANN 367

SEQ ID NO:5168

SEQUENCE LENGTH:207

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06172

SEQUENCE DESCRIPTION:

EP 0 679 716 A1

5 GATCAGTTCA GTATATTGCA CTAATTATTT TAGGTATTTT CATTATATGA AAGCTACCAT 60
 GTGTCAGAGA TGATTTAATC TATTTAAGTG TTGGACTGCT AGGAGAACTT GTACATTAT 120
 GATAATGCAG AATTAGGAAA ACGGTTTACC AGTGTTTAGT TTTATATTGA GGTGCTCAGG 180
 TTGGTATAAA GTGGTATAAA AAGCAAA 207

10 SEQ ID NO:5169
 SEQUENCE LENGTH:116
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06173
 SEQUENCE DESCRIPTION:
 15 GATCATGCC TTTGTAGTAN CACAAATGGN GCTGGAGACC ATTATATTAA GCAAACTAAC 60
 ACAGTNCCAG ANAACCAAAT ACAGTATGTT CTCACCTATA AATGGGAACT AAAGNN 116

20 SEQ ID NO:5170
 SEQUENCE LENGTH:92
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06174
 SEQUENCE DESCRIPTION:
 25 GATCTGCTAG GGATTGTCAA AATAATCTCC TTGAGGCATC TTTATTTTAA AAATGAGATT 60
 AAAGTATGTG ATTTGCTTGT TATGTGGCTA AA 92

30 SEQ ID NO:5171
 SEQUENCE LENGTH:120
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06175
 SEQUENCE DESCRIPTION:
 35 GATCANCAGA AAAGGCAAAT TTCACTCGNC TAAACACTTT CAATTTTCAG TTNTAATTTT 60
 ATNTTCTATA TACCCAGTCA TAAAGTATAA GCATCAGTTG TCATTAAAAG TTTTCAGAAA 120

40 SEQ ID NO:5172
 SEQUENCE LENGTH:102
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06176
 SEQUENCE DESCRIPTION:
 45 GATCTGTAAT GAAAAGAATC TGNTACTGCA AGTAAACCT ACTCCCCAAA AATGTGTGGC 60
 TTTGGGTCTG CATTAAACGC TGTAGTCCNN GTTCATGCCA AA 102

50 SEQ ID NO:5173
 SEQUENCE LENGTH:171
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

55

CLONE:HUMGS06177

SEQUENCE DESCRIPTION:

GATCACTTNT NGTCTGATTC CAGCCTGCTT GCAACCCTGG GNTCCTCTTG TTCCCTGCTG 60
 NCCTGCCCCCT TGGGAAGGGG CAGTGATGGC TTTGAGGGGA AGGAGGAGAC CCTCTTTCTC 120
 CCATGCTGCA CTTACTCCTT TTGCTAATAA AAGNGTNTNT AGATTGTCAA A 171

SEQ ID NO:5174

SEQUENCE LENGTH:188

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06179

SEQUENCE DESCRIPTION:

GATCTAAACT GTATTGNCCA ATTTAAATAA AAAATNNAAT ATAGATTCAG AAAGGTTTCAT 60
 ATTTTCTTAA TGACTTCATT CTATATTATN TTGTTAGGTT GCATAAAGAA GCAAGGAATT 120
 GTACTTGTAT TAAAAGATGA AGAAAGCTAT TAGGTATATT TGTACATGNC TGCANNTGTG 180
 TCTATNNN 188

SEQ ID NO:5175

SEQUENCE LENGTH:69

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06180

SEQUENCE DESCRIPTION:

GATCTTGAGA GGTGGAGGTT GCAGTGAGCC AAGATTGTGC CACTGNCTTC CAGCCTGGGA 60
 GACAGCAAA 69

SEQ ID NO:5176

SEQUENCE LENGTH:134

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06181

SEQUENCE DESCRIPTION:

GATCTGTATA TATGTAACAT ATTAATGGGT AACTTGCTGT GTAAAATTAT AAGCCATATT 60
 TTAAAAGGTT TTAATAATAC TTATTGTGCT CCATTGTGA TATAATTNCT AACATTCTG 120
 CTCTGTGANN NNNN 134

SEQ ID NO:5177

SEQUENCE LENGTH:59

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06182

SEQUENCE DESCRIPTION:

GATCTTNGAG ATTGTTCCAC ATCAGTACAT AAAGTACATA AAGATTGTCA CCCCACAAA 59

SEQ ID NO:5178

EP 0 679 716 A1

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06183

SEQUENCE DESCRIPTION:

GATCTGTCTA CTTNNCTTAT CCTGATTCAA ATGGAATGCC AGTATGGAAC TCCTAGGATT 60
TGTCACGAAT GGGAAAGCCAA GTGCCATCTT CAAAATTTCA GGTCTTAAAC NTGGAGAAGG 120
AAGCCAACAT CCTTTGGAG CCATGAATNT TGTCCGAACT CCANNNTGTT GCTCAGANTG 180
GANTTTCAGT GGN 193

SEQ ID NO:5179

SEQUENCE LENGTH:109

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06184

SEQUENCE DESCRIPTION:

GATCATTATT TGGNAATATG TCCTATGGAA AGAATAAAAG CATGTNCTTC ACAGCTAGCA 60
TGTTACAGA TTTGAAAGAA GTTTCATTAA AAGCACCATT GCTTTCAAA 109

SEQ ID NO:5180

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06185

SEQUENCE DESCRIPTION:

GATCTTAATT TAAATAGGTG CTTTAATTTT ACAGCTTTCA AAAGTAGTTA CTGTAAATTT 60
TACTCCTGTT AATGCTGGAT TGGTTTAAAG GATTTATAAG GGCTGTGTTT NCTCNTACA 120
AGGCAAGATG CCATACAGNG TTCANTAATA GAAGGTCTNG ATACAACCGA CATTTTAAAT 180
ATTCTNTATA CATGNGGACT GCGTCTTTTT CACTGACCCT ATGANITCAC TGTGGAGTAG 240
GGTGAAGTGG NCTGCANATT AGTTTATTG TTGCCATAAT CACATTNNNG AAAAGAN 297

SEQ ID NO:5181

SEQUENCE LENGTH:301

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06186

SEQUENCE DESCRIPTION:

GATCTNATTG CTTATAAACT TTGGTGACGG TAGTGTGTAA GGCCGTATTT NNAGCATCTN 60
ACAGGTGTTT AAAAAAAGT GGTGTGCGCA CTGGGAAGTG GAGTGATGGC CTCGTCTCCA 120
GTGCTCCTCT GGGCTCTTGA GTTGCTGCTT GANTTGCCGT GTAGACATTT NCTTGGAGAG 180
TCCACTTGTN ATTTGACGGA GGTAAGTTTC AACCCAGAGT TAATGTCAAG CATGCTAATT 240
TANCTAGTCA CTCACAGATG ACTTTCCTTT AATAAAAGTC CCTTTTCCTT AAAANAAAAA 300
A 301

SEQ ID NO:5182

SEQUENCE LENGTH:293

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06187

SEQUENCE DESCRIPTION:

GATCTTTGGG CAAGTCACTT AACCTCTCTT TNCCTCAATT TCCTCATCTT GAAATGAGGA 60
 TAATAATACC TGCTGTACCT ACCTCACAGG GCTGTTGTGA GGATTAAATG AGNTGGCATG 120
 TGAAAGCACT TTGAAAATTG TAAAGCGCTA TGTAAATGTA AGGTATTATA GAANCATCTT 180
 TAACATATAG TTTCATACCA TTCATTTTTT ACCAAAGAAA GGGAAAGTNT GCTNGTANGC 240
 TGGTTGAAAA AGTTANNCTT GGTATAANNT TNGGTTTGGT TGANGNANAA GGN 293

SEQ ID NO:5183

SEQUENCE LENGTH:149

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06188

SEQUENCE DESCRIPTION:

GATCACAAAA GTATATAAAA AGTCTACTAG AGCAACATTT TCCCATATTT TTNGGTTCTC 60
 AAAGCAACTT ATGTATGNTT TAGAGANGNC AAAAGAGGAA GCCTAGGGGG AAAAGAAAAGA 120
 NAATTAGAAT TTGCAAAATNC TAGAAAANN 149

SEQ ID NO:5184

SEQUENCE LENGTH:157

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06189

SEQUENCE DESCRIPTION:

GATCGAAAAG AAATTTNTTT ATACTTGATG CCTTAAGATN CCCAAAGCTG CCCAAAGCTC 60
 TGAAAGACTT TAAGATAGGC AGTAATGCTT ACTACAATAC TACTGANTTT TTNTAGAGTT 120
 AACATTTGAT AATAAAACTT GCCTGTTTAA TCTCAA 157

SEQ ID NO:5185

SEQUENCE LENGTH:62

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06190

SEQUENCE DESCRIPTION:

GATCTTGCCCT GGAAGGTGTT TTAAGTTTTN TAATAAACAA GATGATGTCT GAAAATNTGA 60
 AA 62

SEQ ID NO:5186

SEQUENCE LENGTH:145

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06191

SEQUENCE DESCRIPTION:

GATCTAGAGC AGCATGGAGC TGTGGTAGA ATATTAGTTT TTAACCATAC ATTGTCCCAA 60
 AAGTGTCTNT GCATTGTGCA AAANGTAAAC TTAGGAACAT TTNGGTATTA AAAGGATTAT 120
 TTTAATTGNN AAAAGCCNGA NGCGN 145

SEQ ID NO:5187

SEQUENCE LENGTH:103

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06192

SEQUENCE DESCRIPTION:

GATCAACAGC TCCGCCTACC GCAAAGCATT TGANAGCAGA CTAGCCANCA GTNGTGCTCT 60
 GAGAGTGAAC GNGCACCTCC AGGTNGAGGG CCACAGCAAC GTN 103

SEQ ID NO:5188

SEQUENCE LENGTH:248

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06195

SEQUENCE DESCRIPTION:

GATCTGATAG AGGGGGAGGC AGAAGCAGAT ACTAGAAACA AACAAAACCTT TGGACCAAAA 60
 TCCCAGTTCA AAGAAACAAA AAAAAGAGTG GAAACTATTC TATCATAACT ACCCAAGGAC 120
 TACTAAAAGG ANAAATTGTG TTACCTTTTT TAAATTCCTT GTTAAGTCCC TTCCGTAATT 180
 TTNATGTTCT TGTGAGGANA AAAGTAAANC ATGTTTANTT TTAANNAAGG NGANAGNGGG 240
 NGTNTAGN 248

SEQ ID NO:5189

SEQUENCE LENGTH:354

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06196

SEQUENCE DESCRIPTION:

GATCTCTTAT ACAGACGCAC CAAAGCCCTC ATTGACTATG AGAACTCAA CAAAGCTCTG 60
 GATAAGGCCC GGTTAAAGAG CAAAGACGTC AAGTTGGCTG AGGCACACCA GCAGGAGTGC 120
 TGCCAGAAAT TTGAACAACT TTCCGAATCT GCAAAAGAAG AACTGATAAA TTTCAAACGG 180
 AAGAGAGTGG CAGCATTAG AAAGAATCTA ATTGAAATGT CTGAACTGGA AATAAACAT 240
 GCCAGGNACA ATGTCTCCCT TTTCAGNGC TGGTNTTGAC TTGTTCAAGA GTAAGTGGTT 300
 ATGCCTTCAC TCNGTAGGAA NNGGAGTTGA ATTGTTGTAA GGAAGCCNAN GTGN 354

SEQ ID NO:5190

SEQUENCE LENGTH:77

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06197

SEQUENCE DESCRIPTION:

GATCTCTATT TTAAACTAG CTTTTAAGC AGCTGIATGA AATAAATNCT GAGTGAGCCC 60
CAGCCCGCCC CTGCAAA 77

5 SEQ ID NO:5191
SEQUENCE LENGTH:257
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

10 CLONE:HUMGS06198

SEQUENCE DESCRIPTION:

GATCTAGCTT CANAGGAAGT CTACACCCCA TTCCCTTCTG CTTACAATGT ACCCATGATA 60
TGTGTTTAGC ACAGTAATAC TGTAACAGGA CATCACATGG AAAAATCAAA GCAGCTGGCT 120
CACTGTATTT AACTGAAAAG AATGCCTACA GATTGGATAT TTNGTAGGGG NAATTAAGGC 180
15 ACTTTNNTAA CAACTTCAT TNTGTGAAAC TNGGTTGAAT ATTAACATAC AATTNNGNCG 240
GGNNTATTAA TGCCATN 257

20 SEQ ID NO:5192
SEQUENCE LENGTH:185
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06199

25 SEQUENCE DESCRIPTION:

GATCCCAGGC TGCCCTGGAC TTAGACCAGT GTCTGAGGTG GTAACAGCGG CCGCACAGGG 60
TTGGCCTAGA CCTNGGATT GTGGGGAAAG CTGCTGGTGT GACCANCTGA GCACCCAGCC 120
AGGAGACCTG CAGCCCTNCG NCTTCCAGAA GCAGGTCCCA AATAAAGNCA GTGCCNACCT 180
NCAAA 185

30 SEQ ID NO:5193
SEQUENCE LENGTH:60
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

35 CLONE:HUMGS06200

SEQUENCE DESCRIPTION:

GATCTGTATA TAACTTTAAT TTAAAGGACC ATAATCAACT TTGTAATATT CTNATATAAA 60

40 SEQ ID NO:5194
SEQUENCE LENGTH:286
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06201

45 SEQUENCE DESCRIPTION:

GATCACCTC TACGGGAGAA CCAAGGAGCT GACTTCGGAA CTAAAGGAGA ACTTCATCCG 60
CTTCTCCAAA TCTNTGGGCC TCCCTGAAAA CCACATCGTC TTCCCTGTCC CAATCGACCA 120
GTGTATCGAC GGCTGAGTGC ACAGGTGCCG CCAGCTGCCG NACCAGCCCG AACACCATTG 180
50 AGGGAGCTGG GAGACCCTCC CCACAGTGCC ACCCATGCAG CTGCTCCCA GGNACCCNG 240
NTGATGGAGC CCCACCTTGT NTGCTAAATA AACATNTGCC CTCAAA 286

5 SEQ ID NO:5195
 SEQUENCE LENGTH:138
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06202
 SEQUENCE DESCRIPTION:
 10 GATCTCTTGT TCTCTCCTGA GTGTCTTCT ACTNTGCTGA GNGTCTTCT GCTGTCCTTA 60
 TCCTGTTCTC TTATCTNAT CCCCTCCAGT CTCTGCCTAA TTTNAGTGT TTAATAACAA 120
 CCGNATGTCT AGTAAATN 138

15 SEQ ID NO:5196
 SEQUENCE LENGTH:96
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06203
 SEQUENCE DESCRIPTION:
 20 GATCAAGAAC TTGGAACCGC AGAAAACGAA ATCCCATAGT AGCACAAAGC TTGGCTGTTC 60
 AGTGAATAAC ATTTAAATAA TCGTAAANTA CAGAAA 96

25 SEQ ID NO:5197
 SEQUENCE LENGTH:222
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06204
 SEQUENCE DESCRIPTION:
 30 GATCTTGCAG CTTTATTGA GTATTGTTC TTTTGTGTAG TTCCATCTT TAAAAATATT 60
 TAAAAATATT TCAAGATAAA GTATTATCTT CTCTGCAAAA ATCCTGGAG TAATTNCTC 120
 TCATAATATT TGAGGTCAGT GGTTCCTCAGT TGTATTAGTG GGGTAACTAC ATCAAAGTAA 180
 ATAANGTCTT ATTTTNANA TGCAAAATTT AGACCATAGA AA 222

35 SEQ ID NO:5198
 SEQUENCE LENGTH:53
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 40 CLONE:HUMGS06205
 SEQUENCE DESCRIPTION:
 GATCAAGTGA ACCATCCCTA GTCTCCCTC AATAAATAAC TTTAACTCC AAA 53

45 SEQ ID NO:5199
 SEQUENCE LENGTH:239
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06206
 50 SEQUENCE DESCRIPTION:

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GATCANAGTG AACCTCAGT TTGTACAAAA GAGTATGGGC TCACAAGANG ATGATTCAGG 60
 AAACAAACCA TCCAGTTATT CTTGAAACTA ACATCCATCC TGAGCTAAAC NAGAGAAACT 120
 ACCATCTTGG CCAGTGNCAN GTGTTCCGGAG GGCAGCAGAG NGGACCAAGC CTGTGTCACC 180
 TGGNGACTAA GAANTTAAAGT TTTGTNTTGA CATATTCAGT CCTGTGTGCT TNCAGNAAN 239

SEQ ID NO:5200

SEQUENCE LENGTH:233

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06207

SEQUENCE DESCRIPTION:

GATCGAATAC GTGGATGNGA CGGGCCGGAA ACTCACACCC AAGGAGGCTT TCCGGCAGCT 60
 GTCGCACCGN TTCCATGGCA AGGGCTCAGG CAAGATGAAG ACAGAGCGGC NGATGAAGAN 120
 GCTGGACGAG GAGGCGCTCC TNAAGAAGAT GAGCTCCAGC GACAGCGCCC TNGGCACCGT 180
 GGCCCTGCTC CAGGNGAAGC AGAANGCTCA GANNGACCCC NTACATCGTG CTN 233

SEQ ID NO:5201

SEQUENCE LENGTH:163

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06208

SEQUENCE DESCRIPTION:

GATCAAAAAG GGGTTGATTA CAAGGGCAGG AAGGAATTGT TAGTGTGATT CTACAGTTCT 60
 GCATCTTGNT TATGGTATGA CTGTGCGTTT GTCAAACCTT AACAGGATGA ATTTGCTGA 120
 ATGTAAATC ATACTTCAAT AAACATGACT TAAAAANCTT AAA 163

SEQ ID NO:5202

SEQUENCE LENGTH:319

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06209

SEQUENCE DESCRIPTION:

GATCAGTTTA TGTGTAATAT TCTAGTGCTT TAATGACTCT TTTTTCITT GGAGGGAGGG 60
 TAACATTATT TGGACAGATG CAGAAGGAAC TGTTAGTGAG TCAAGACAAA CACATCTGAA 120
 ATAAAGGAAC TGTGTATTAA CATGTTAACA ATTCATAACT GCACTTTTTA TGACATTTTG 180
 AAAATCTATT TATAGGTACA GANCAATGGG TTTTGTTAAN CTGTATCACA TTTATNCTTG 240
 CAGAAATTTA TTNCATTGTT ATTAGTAGGA ATTTTNTTGG TTCAATAAAA TTGGCAAAAN 300
 CTGGGAAAAA NAAANNTTN 319

SEQ ID NO:5203

SEQUENCE LENGTH:82

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06210

SEQUENCE DESCRIPTION:

GATCTGTCTA GTTCCCATTC TCTGTTCAAC CTCAGTGNTT CAAAAGTTC TAATAAATAA 60
 ACTCATTGA GTTGAACCTA AA 82

5 SEQ ID NO:5204
 SEQUENCE LENGTH:145
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06211
 10 SEQUENCE DESCRIPTION:
 GATCAAGAAA GAAGCTATCT GGGANCANTG TAGCANTTAC GTCAGACCAG GACACTTCCT 60
 GTTTACAGGA GACTATAAAA CCTTTGTCCT ATCATCACTT GATGTGGACG NCATTTTAGG 120
 CCTCAGCCCG CCTGCACCCA GNNNN 145

15 SEQ ID NO:5205
 SEQUENCE LENGTH:295
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 20 CLONE:HUMGS06213
 SEQUENCE DESCRIPTION:
 GATCAGAAGC ACCTCTTCTT TTATAGAAGT TGATGGATGG TTCATTCCAT TCTGCTACCA 60
 AGAAGTGCAAT GCTGCTGCAG CGACACCTCA TTGCAACCTA TTATGAGAGA GTAAACACA 120
 25 CACTCAGTGA CATTTAGCC TGCTCTCAAG NCCCAATTTT TATTCCATCA TTAATAAAT 180
 CCAGTAACT TNCAAAATTG GAAACCANAA ACTAAGGCAT ACCTGGCTTA GATTCTTTCA 240
 GAATTTTCTG NTCTTTTGTG CGTAAATTNA AAAATAATTT GTGGCAGGNN TTAAT 295

30 SEQ ID NO:5206
 SEQUENCE LENGTH:87
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06215
 35 SEQUENCE DESCRIPTION:
 GATCTTTAAA ATNAAGTGTA CGCTTATAAT ACAAGTAATG CTTGTGTATT TCTCACTTTA 60
 GGAAATAAAA TATTTGCCAA TTTGAAA 87

40 SEQ ID NO:5207
 SEQUENCE LENGTH:165
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06216
 45 SEQUENCE DESCRIPTION:
 GATCCTCCCA TCTCAGCCTC TCGAGTAGCT NGGACCACAG TTGTGTGCCA CCACACTTGG 60
 GCTAACTTTT TAATTNTTT GCGGAGACGG TATTGCTATG TTGCAAGGN TGNTTACATG 120
 CCAGTACAAT TTATAATANA CACTCATTTT NCCTNCCGTC TGAAT 165

50 SEQ ID NO:5208

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SEQUENCE LENGTH:116

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06217

SEQUENCE DESCRIPTION:

GATCTTCTTC AGAAGCTTCA AGTCTCANCT GCATTAAAGC TCTCCATTGA ACCCGNTCAC 60
AAAAGTACAA GCTTAAAGGG GCTAAAATCC ATTAATACAT NCCATNTTAT ANCCCN 116

SEQ ID NO:5209

SEQUENCE LENGTH:117

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06218

SEQUENCE DESCRIPTION:

GATCCCGTGN ACCGAGTACA CGACCCAGGT ATGTACCAAG TAGGCACCCT TGGGGGCACC 60
CACTGGGGCC AAGGGTCGGG GGAGTGTTGG GAGCCTCCTN CCCACCNNAC CTNCCTN 117

SEQ ID NO:5210

SEQUENCE LENGTH:181

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06219

SEQUENCE DESCRIPTION:

GATCAGCCAC TTGCTGACCC TGGTTCTTAA GGACACATGA CATTAGTCCA ATCTTTCAAA 60
ATCTTGCTTT AGGGCTTGTG AGGAATCAGA ACTAACCAG GACTCAGTCC TGCTTCTTTT 120
GCCTCGAGTG ATTTTCTCT GTNTTTCACT AAATAAGCAA ATGAAAATC TCTCCATTAA 180
A 181

SEQ ID NO:5211

SEQUENCE LENGTH:344

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06220

SEQUENCE DESCRIPTION:

GATCANAACC AGTTTGTAGA TTTCTTTGTT CCTTCTCCAT TCCCACTGCT TCACTTGCCT 60
AGTCTTGAAG NAAAAAACA AAAACA AAAACCTTGT TCCTTTATAG GTTCCTGGTA 120
GAATCAGTAG AGATGATTTC AGCTCATTGA CATTITTTTA AGCTATATCC CCTTGTCAAT 180
CCATTGAGAA AGCTGACAAC TGGGATAGGG AGGGGATTGG ATAATAGATG GGGTCAAATT 240
CTGTGTGAAT GTGAACTTGC CTAGTAAGCA CTTTGGTCTG TGGTTCAC TN CTGCGGTTAG 300
NGGAAATCTA TCTCCCTAT CTTNGGGTCC TTGAACTACA GCNN 344

SEQ ID NO:5212

SEQUENCE LENGTH:139

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06221

SEQUENCE DESCRIPTION:

5 GATCACATAA CTAGGAAGTG GCAGAACTGA TTCTCCAGCC CTGGTAGCAT TTGCTCAGAG 60
 CCTACGCTTG GTCCAGAACA TCAAACCTCA AACCCCTGGG ACAACGACA TGAATAAAT 120
 GTATTTTAAA ACATCTAAA 139

SEQ ID NO:5213

SEQUENCE LENGTH:179

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06222

SEQUENCE DESCRIPTION:

15 GATCGTAAAC CATTATCCTT TAAAGGTNTA TTTGAAGATG CTGTTAAAGT ACAGAATTTT 60
 GTGTACAGGT AGATTTTNCCT GTCCCTCATT AATAGTGCCT TCTTAATTAA TACAGACTGG 120
 TGTTAGCTAT AACAAAACCT CAGTANNGGG GGGTGNATCC CAAGTNCCTT GTGGCNANN 179

SEQ ID NO:5214

SEQUENCE LENGTH:129

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06224

SEQUENCE DESCRIPTION:

25 GATCAAAATG TTCTGGAATT AGATGTGATG TTTGCACAAC TCTGTGAATG TACTAAGAAC 60
 CACTGAATTG TATATTTTAA AAGCATGGTA TGTGAATAAT ACCTCAATAA AGCTGTTATA 120
 AAAAAATAA 129

SEQ ID NO:5215

SEQUENCE LENGTH:131

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06225

SEQUENCE DESCRIPTION:

35 GATCTTCAAG CATAGNNTTG CATATTTTAA CATCTGAAAT CAGAAAGTGT CTTNCTGGG 60
 AGTNTGGTTT TAGAAACATG AAATAGTACT GTATGTAAA ATCGATGGCA GTGTTGCCTC 120
 GATGATATNT N 131

SEQ ID NO:5216

SEQUENCE LENGTH:190

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06226

SEQUENCE DESCRIPTION:

45 GATCTTTGAG CGGGACCTGA AGAAGAAGGG GCCCGAGCCG GTGCCACTGG AGTTTATCCC 60
 AGCCAGGGC CTGCTGGGAC GGCCGGGTGA ACTCTGTGCC CAGCACTTCA CGCTCAGCTG 120
 50 ACCCTGGCCC ACCTGTNAAT AAATCTCAGC TGACCCAGC CCACCTGTNA ATAAATNTT 180

55

TTGCAGGAAA

190

SEQ ID NO:5217

SEQUENCE LENGTH:323

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06227

SEQUENCE DESCRIPTION:

GATCCCTGGT CTTCACTG TAGCAGCCAA AAGGAACAAG CTGAAANTGG ATACCTAATG 60
 TAAGTGGAGT CTTCTAAGTG TTCTCTGGAA GAAGTCGGGT CCCAGGCTCN AGTTGCTGGT 120
 TCTNACATGC CACCATCCAC AGTCCTTCAG CAGATTNATT CAGTGGCTAA TGCTGATATC 180
 ATAAATGCGG CAAAGAAGTT TTTTCTGGC CAGANGTCAN TGGCAGCAAG TGGAAATTTG 240
 GGNATNCAC CTTTTGTTG ATGAGTTGTA ATACTGNNGC GCNCATTACC AGGTGAGAGC 300
 TGGANCGTNT TTTCAGNCCN TGN 323

SEQ ID NO:5218

SEQUENCE LENGTH:225

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06228

SEQUENCE DESCRIPTION:

GATCAAAGTT CAAATTAATT TTAAGTTAGC TAATNAACTC ATCACCAGGA CAGTTGGAGG 60
 GGGTAGGCCG AGGTTAAATG GTCCACGTTT CAAAAATGTT AATGGCTAAT CCATAATTAA 120
 AGAAGGTTTA ACTGTTACTG AAGTTTACAA GTTTTATTGT CATGNACATG AANTACAAAC 180
 ACGATGGCTT CGAAATGTCT TTCAATAANT GTTCTGCAAT TAAA 225

SEQ ID NO:5219

SEQUENCE LENGTH:317

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06229

SEQUENCE DESCRIPTION:

GATCTCATTC TCACCTCAGA AACCATTTAC AACCCAGATT ATNATAGTAA TTTGCACCAG 60
 ACTTTCCCTTA GACTGTTAAG TAAAAATGGA CGTGTACTTT TGGCCAGCAA AGCACATTAT 120
 TTTGGTGTAG GTGGAGGTGT TCATCTCTTT CAGAAAGTTG TAGAAGAAAG AGATGTTTTT 180
 AAGACCAGAA TACTCAAAAT AATTGATGAA GGATTGNNGA GGTTCATAAT TGNAATAACT 240
 TTTAAGTTTC CTGGNTTANT TAACATTCAC TTGNGTGTCC ANAATTGGNG ATAGACNGNN 300
 AGGCACANGN TGTCNTN 317

SEQ ID NO:5220

SEQUENCE LENGTH:51

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06230

SEQUENCE DESCRIPTION:

GATCATATAC AGTTCCTTT TAAAAAGCA ATAAATNCTT GGAATTAGAA A 51

SEQ ID NO:5221

SEQUENCE LENGTH:103

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06232

SEQUENCE DESCRIPTION:

GATCAAGAAT GTTCCCAAA GTTNTGAATA GAGTGTACA ATGTATCAA GANTTGTGAA 60
GCAATGATTC TTACAATAC AATAAGTTT AATTATTAC AAA 103

SEQ ID NO:5222

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06233

SEQUENCE DESCRIPTION:

GATCTCACAG ATGTNTGGAA TTCAAAAAG CCAAACTCAC AGAAGCAGAG TAGGATGGTG 60
GTTGCCAGGG CCTGGGACGT GGGGGAAATA GGGAGATGTT TGGTGTCTGT TAGGAAGAAT 120
GAATAAGCTC TGGAGAGCTA ATGTACAGCA TAGTGACTNN NGNTAATAGA ACCGTATTAT 180
ATACTTGANA TTTGTGAAGA GAGTAGATGT TAANNNNN 218

SEQ ID NO:5223

SEQUENCE LENGTH:87

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06234

SEQUENCE DESCRIPTION:

GATCTGTAC TTACTTCTGT GTGACCTTG AAAGGCTACT TATTCCTCT CTTAGCTTTC 60
TCATTAAAT CAATGAACAA TGCCAAA 87

SEQ ID NO:5224

SEQUENCE LENGTH:202

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06235

SEQUENCE DESCRIPTION:

GATCTCAGGC TGAGCAAAAT NAAACCTTGA TGTACGGGC TAAATCAAGA GCAGCTTAAT 60
CCTGTTTACA ATGTGAGCTT TTTGTGCGTC TGTGAAATGT TTTACAGTGT TTCTCATCAT 120
CTGTTTCCCA GCAAGGTCTT TNNTTTTNCN ACATTGAAGT NCTGNCTATG TATCTNAATC 180
ACAAATGGNT TCATTCACN TN 202

SEQ ID NO:5225

SEQUENCE LENGTH:148

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06236

SEQUENCE DESCRIPTION:

5 GATCACAAGC GTATCCATNG TGAGGTTCCG TGGATGGAAG CTNATGGATN TNCCTTCCTG 60
 ATGTTTCATCT GCCACCTTGC TATTNAATGC ATCCTGTTA TAACTGTCTT CTAAATATTG 120
 AATAGAAATA AAGCATTGTG ACAGTAAA 148

SEQ ID NO:5226

10 SEQUENCE LENGTH:370

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06237

15 SEQUENCE DESCRIPTION:

GATCGAAATT GCGGGCTATG GCGCCGAAAG TTTTCGTNAG TACTGGGATA TCCCCGATGG 60
 CACCGATTGC NACCGCAAAG CCTACAGCAC CACCAGTATT GCCAGCGTCG CTGACTGACC 120
 GCCGCTGCCT ACAGAGTCAC ACTCAATCCT CCGGGCACCT TCCTTGAAGG AGTGGCTAAG 180
 GTTGGACAAT ACACGTTTAC TGCAGCTGCT GTCGGGGCCG TGTGTTGNCCT NACCACCTGN 240
 20 ATCAGCGTCC ATNTCCGTNA GAAGCCCGGA CGANCNCNTG AACTACTTNN CTCGGTGGCT 300
 TTCGCCGGAG GCTTNACTTT TGGGGGNANG GACGTACAAT NTACGGGGTT TGGGGCCGCC 360
 GNNTTTGGTN 370

25 SEQ ID NO:5227

SEQUENCE LENGTH:149

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06238

30 SEQUENCE DESCRIPTION:

GATCTGTGTG AAGAATGGTA ATNACGTAGT TGNAAGGAA AATGTACTGT TGTGTGTTTC 60
 ATTTGTGTGA TTTCGTACCA AAAAAATGTG TTTGAACTAT ATTGTATGTA ATTTGGAAGT 120
 CGTGTTAATA AAACCCTGCA GTTTCCTAAA 149

35 SEQ ID NO:5228

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40 CLONE:HUMGS06240

SEQUENCE DESCRIPTION:

GATCAGGCTT TGAAGGCTGG ATTCTATCTA CATAAGTCN TTCAATTCCA CCATGGGNCA 60
 GAGCAGCTCC ACCACGTGTG CACTTAGCCA TNGNTGGCAA CAGAAACCAA GAGACACANN 120
 45 TACGCAGGN 129

SEQ ID NO:5229

SEQUENCE LENGTH:108

SEQUENCE TYPE:nucleic acid

50 TOPOLOGY:linear

EP 0 679 716 A1

CLONE:HUMGS06241

SEQUENCE DESCRIPTION:

GATCATTAG GAAAAATAAT TCTATTTTA GCTTTTCATT TCTCAGCTGT CCTTNTTCT 60
NNTTTGATTT TTGACAGCAA TGGAGAATGG GNTATATAAA GACTNCCN 108

SEQ ID NO:5230

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06243

SEQUENCE DESCRIPTION:

GATCAAGAGT TGTCATGCTA GGGAGACTAT TCTGCCTAAA ATTCTGGGGN ACTATTTTGT 60
GTTTAAGNAT ACTATGTATA TTAAGAAGGT ACATATTGA AA 102

SEQ ID NO:5231

SEQUENCE LENGTH:60

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06244

SEQUENCE DESCRIPTION:

GATCTTAAAA GTGTTATTTT TGCTTTTATT TTTTAAAAA GGNNGAGGNT TATTGGCAAA 60

SEQ ID NO:5232

SEQUENCE LENGTH:76

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06246

SEQUENCE DESCRIPTION:

GATCTGCAGA TAGTTCCTTT TCAAAATATT GTTTAGACAA AATAAATTC TTAAATATA 60
ATATCTCTAC TTCAAA 76

SEQ ID NO:5233

SEQUENCE LENGTH:314

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06247

SEQUENCE DESCRIPTION:

GATCGNTCTG GTCGCAGCTT AGGAACAGCA GACGTGCACT TTGAGCGGAA GGCAGATGCC 60
CTGAAGGCCA TGAAGCAGTA CAACGGCGTC CCTNTGGATG GCCGCCCCAT GAACATTCAG 120
CTTGTCACGT CNNGATTGA CGCACAGCGG AGGCCTGCAC AGAGCGTAAA CAGAGGTGGC 180
ATGACTAGAA ACCGTGGCGC TGGAGGTTTT GGTGGTGGTN NNGGCACCCG GAGAGGCACC 240
CGCGGAGGCG CCCGTGGAAG AGGCAGAGGT GCCGGCAGGA TTTCAAAGCA GCAGCTTTCG 300
GCAGAGGAGC TTTN 314

SEQ ID NO:5234

SEQUENCE LENGTH:238

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06248

SEQUENCE DESCRIPTION:

GATCAATACC AAAAGACACT TGGAACTTTC TTTTAGACTT CAGTACGATG ATTGCAGATG 60
 ACATGTCTAA TTATGATGAA GAAGGAGCAT GGCCTGTNCT TATTGATGAC TTTTGGGAAT 120
 TTGCACGCCC TCAAATTGCT GGGNCAAAAA GTACAACAGT GTAGCACTAA AGGNNCCTTC 180
 TAGAATGTAC ATAGTCTGTA CANTAAATAC ANCAGTAAAT TGCACAGTCA GNANNNNN 238

SEQ ID NO:5235

SEQUENCE LENGTH:83

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06249

SEQUENCE DESCRIPTION:

GATCTGCAAA CAATGAAGAA TTATGTAATA TATTGTACAA ATGTAAGCAA AGGCTCTGAA 60
 ATAAAATGCC ATAGTTTGTG AAA 83

SEQ ID NO:5236

SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06250

SEQUENCE DESCRIPTION:

GATCTTAAAT ATCTTGACG CTTAAATCAC TACAAACATT TGCATTNTTA TTATGCCAGT 60
 TATTTCCAAA ANGATTGTN ATACATGTCA CTTATGTTTT TAAGCTANTA TTGACTGTAG 120
 GATAATCTCC TTGTTCCCT CAAAATAGTC ATGNAAGTGT ACATGAANNT NTTTTTAN 178

SEQ ID NO:5237

SEQUENCE LENGTH:139

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06251

SEQUENCE DESCRIPTION:

GATCTGAAGA GCTTTGCAGC TCTNTTAAAT AGGTTGCTGN ACATGTTCTA AGGTTTGTGA 60
 GAACACGTGT GCCTGTTTAA GTGTATTGAT GTTAATANTA TTAAATATCC TAATGATNGA 120
 ATGCATTGTA TGGTNTCTN 139

SEQ ID NO:5238

SEQUENCE LENGTH:363

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06253

SEQUENCE DESCRIPTION:

GATCTAAGCC ACAGNGGGGA CTGGAGCCTC GTTTCCCCC TAGGCAGACC TAAATCAAGC 60
 AGCTTACCAC AATAGTGCAT GCTGAGTAGA TTAGTTCCAA GGAAGGGAGA CTGGAATGCT 120
 GGTGTCAAGG AAAAGCCTCC CTCATCATCT AGTCTAAGAC CATAACGGGC AGAAGCATAA 180
 GAGGTTCCAG GGCCATAGGN GANTGAGAAG TAGGGCACAT ATAGGGAGGA AAGAAAAGTG 240
 NAGNNGGGGG ANATCTCCGA NTTTTTTTAC TGCTTGGGAA AAGTGTACTA CATGANGGNT 300
 GCTTNGGGCT TTGCTAACCT GCTCACCCT AACCCTNCCA AGTNTTAACC ATCCCCAGNG 360
 GTN 363

SEQ ID NO:5239
 SEQUENCE LENGTH:171
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS06254

SEQUENCE DESCRIPTION:

GATCTGAGGA ACAAATGAT GTCATTTAAT CGGAATCTAA ATGTGACACA AACACGTGC 60
 CAGCAATACC TGCTTGTAATAAATGTTCT GAGCCACAG TGTTCTGGG TATGTGAGTT 120
 TATATCAAGT GAAAAGGCTG CTTAATTGAC ATTAAAGTTT TGAATGTAA A 171

SEQ ID NO:5240
 SEQUENCE LENGTH:348
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS06255

SEQUENCE DESCRIPTION:

GATCATAAGT ATAAATGTCC TCGTTTAAAT TTTCCATATT GAGGACAGCC TCTGCATATA 60
 AAAATGTTCA TTGGGAGAAA AATTATTTT AAAACTAAAT TTTTATAGTA GTCCTCCATT 120
 ACTGGCAATT AAGGAGCAAC CCACAAAATG TCATTATGTG GTTCTTTGAT TAGGCATAAA 180
 ANGTATTGCA AACAGCTTTN CTATTCCTTT GGAATATGAN TCTTTTAAAT GTCTAANGTT 240
 AACCTGCAAC ATATTCTAGT AGGACANGTC AATGTAAATN AGGTAATTNT NGCCTGTNTT 300
 ATACCTNCTG TNGCCATTG GTNCAAAATGN NAACCATTN TNAGNCCN 348

SEQ ID NO:5241
 SEQUENCE LENGTH:357
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS06256

SEQUENCE DESCRIPTION:

GATCAACAAG AGAAATAAAA AAGCCCAAGA GGAAGTGGTA GGGGAAGGAA TTTAAGAACA 60
 GCAATAAGTA AAATCTTAA GTAACCTCAA AAAGAAAATG GTACATTTT CCAAAGACCA 120
 CTTATACITG AGAACATGGA AGAATTTGCC TGATACTNNN NGNNGGGGAA AAGAGTCTCT 180
 CCTCTTTTCC TCAAACCCCA GTACACTCAG CCTCTNTGCC CCACCTTCTC CTGACTTTGT 240
 CCTCACTTGC TTCTGCAGTA CATTGGAACC TGNNTTGAAA GAAAGTCTTC CTTGANTAAT 300
 TGGAGTTTGT CTTTGNNGGG CAAATTTAGN CCCNNGGNTC ACAAGNTTTC GGGGGTN 357

SEQ ID NO:5242

EP 0 679 716 A1

SEQUENCE LENGTH:160
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06257
 SEQUENCE DESCRIPTION:
 GATCGGGGAC ATCCTTAGGC TGGTGGCCGG CCGCATCAAG AACACCTTCT GATTGAGCGG 60
 TTGCCATGGC CGGTCTCCGT GGGGCAGGGT TGGCCGCAT GTGGAAGGGC TCTGAGCTGT 120
 GTCCTCCTTC ATAAAAAGTT TTTATGTCTC GTGTCAGAAA 160

SEQ ID NO:5243
 SEQUENCE LENGTH:122
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06258
 SEQUENCE DESCRIPTION:
 GATCAGACTA AAAACNATAA CACCATAGGT CAAAAAAGT TGTCTGAGG TTTTTTTGAA 60
 ACATTAAAGN TCCAAAACAT GACATTTTA AGAATAAATT TGNAATAGAG TATAATTGNN 120
 TN 122

SEQ ID NO:5244
 SEQUENCE LENGTH:71
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06259
 SEQUENCE DESCRIPTION:
 GATCTCCCCT CTCACCCCTC CCACCCATTA ATCTCCTCCC AAAAAACAAG TAAAGTTATT 60
 CTCAATCCAA A 71

SEQ ID NO:5245
 SEQUENCE LENGTH:114
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06260
 SEQUENCE DESCRIPTION:
 GATCTGTGT AATATATGGT GGATATTTTC CTTTAATTTT AACATAACC TCTGAAATNT 60
 GTATCTNTCC TTTTNTATCT TACCATTANT TTAAATCTA GTGGATTGGT TTTN 114

SEQ ID NO:5246
 SEQUENCE LENGTH:337
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06261
 SEQUENCE DESCRIPTION:
 GATCAGACCG CTCAAAGGTC CCCGTNTTCA CTGTTACCCA GAGGCTCTTG TNACTACCCA 60
 CTTTATCCCC CACCGCTGCC AGTGCCACTG CCAACCCTGT TCACAGGCGN TTCCAGCCCA 120

CTCCAGCCAG GGGAGCAGGG AAGAAGAAGG GGCTCCCTCC TCTTCACATT CCCCCCGACC 180
 CCAAAGCCAG AGAAAGCCAG ATGGCACCAG CTGCTCCGGA TGTGCCTGCC CACATTGGGG 240
 GACAGGGCCG GGCCTGGGCT CGGTTCCNAG GTTTGAGCTC TGCAGNCTGT GTCCTGGNGT 300
 5 GAGGGGGCTG AAGTNAGNCC AAAGGAAGAA CTNAGTN 337

SEQ ID NO:5247
 SEQUENCE LENGTH:168
 SEQUENCE TYPE:nucleic acid
 10 TOPOLOGY:linear
 CLONE:HUMGS06262
 SEQUENCE DESCRIPTION:
 GATCACCTNA TTTTNAAC AAAATATTN TAACAGGAAT GGGTGGGAGT NCTGGTGAAA 60
 15 AGAGGTGAAA TGTGGTTGTA TGAGCCAATC ATATTTGTAA TTNTTAAAA AAAGTTTAAA 120
 AGGAAATATC TGTCTGAAA CCCCATTAA GCATTGTNTT NNTATAAN 168

SEQ ID NO:5248
 SEQUENCE LENGTH:378
 SEQUENCE TYPE:nucleic acid
 20 TOPOLOGY:linear
 CLONE:HUMGS06264
 SEQUENCE DESCRIPTION:
 25 GATCAACAAA GAGGACTTTG TGGCACTGGA GAGGCTTACC CAGGGGATGG ACATTCACTG 60
 GATGCATGTT NCTGGTCATT CGGGATTTAT AGGCAATGAA GAAGCTGACA GATTAGCCAG 120
 AGAAGGAGCT AAACAATCGG AAGACTGAGC CATGTGACTT TAGTCCTTNG GAGAACTTNA 180
 GCCAGCGGCT GTCTTGCTGC CTGTACTTAC TTGTGTGAAA AATAGCCTGC AGGTAGGACC 240
 ATTGCAGTGA TGGGCAGATT GGGTCTTTCA CACGGNGTCA GGCACAGTGG CCTTCTGTNG 300
 30 NCATGGTNGT TTTATANANA AATNGGTAA GGTATATAAA TAAAGTNTGG NCCANCTTTT 360
 GNNAAGGNAN GANATGGN 378

SEQ ID NO:5249
 SEQUENCE LENGTH:131
 SEQUENCE TYPE:nucleic acid
 35 TOPOLOGY:linear
 CLONE:HUMGS06267
 SEQUENCE DESCRIPTION:
 40 GATCANCTAC AGGAAAAGTA AATGTGAACG CAAGCAGAAT GAAACACAGT AAAAGCCGGT 60
 CTAGCCTGCC TGGCCACACT CTCAGCGCCT TGTGAGGATG GGNCANTANA TAAANTCATC 120
 TTTAGTAGAA A 131

SEQ ID NO:5250
 SEQUENCE LENGTH:322
 SEQUENCE TYPE:nucleic acid
 45 TOPOLOGY:linear
 CLONE:HUMGS06268
 SEQUENCE DESCRIPTION:
 50

55

GATCATCACT AGCAGATGTC AGTTGCACAT TGAGTCCTTT ATGAAATTCA TAAATAAAGA 60
 ATTGTTCTTT CTTTGIGGTT TTAATAAGAG TTCAAGAATT GTTCAGAGTC TTGTAAATGT 120
 TATTTTAATA ATCCCTTTAA ATNTNATCTG TTGCTGTAC CTCTTGAAAT ATGATTTATT 180
 TAGATTGCTA ATCCCACTCA TTCAGGAAAT GCCAGGNAGG TATTCCTTGG GGAAATGGTG 240
 CCTCTTACAG TGTAAATNTT NCCTCCTGNA CCTTTGCTAA TATCATGGCA GANTTNNCCT 300
 NATCCCTTTG TGAGGCAGTT TN 322

SEQ ID NO:5251

SEQUENCE LENGTH:215

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06269

SEQUENCE DESCRIPTION:

GATCAAAAAT AAGATTACAG TTAATAATATT NCTATATTCA GATGGTTTAG AGACCAGGCT 60
 GTAGAATCAG ACAGCCCTGA AATTGTATCA CACANGGCTG TGTACCCTG TACAAATAAC 120
 TTAGCCTTAC TAAGCCTGTA TTTCTCATC TGCAAANTAG GGNTGNTAAT ATACCTGTNG 180
 NTAAANATGT TTTATTAAA AANCGTTGGC GCAAA 215

SEQ ID NO:5252

SEQUENCE LENGTH:229

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06270

SEQUENCE DESCRIPTION:

GATCTAAAGT GCAGCAGAGT GGCTGNTGCT GCAAGTNATG TCTAAGGCTA GGAACATCA 60
 GGTGTCTATA ATTGTAGCAC ATGGAGAAAG CAANTGTAAA ACTGGATAAG AAAATTATTT 120
 TGGCAGTTCA GCCCNTTCCC TTTTCCCAC TAANTTTTTN CTAAATTAC CCATGTAACC 180
 ATTTNANCTC TCCAGTGCAC TTTGCCATTA ANGTCCTGTC ACATTGAAA 229

SEQ ID NO:5253

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06271

SEQUENCE DESCRIPTION:

GATCGTGAAG GAGGCTTACC CAGACCACAC ACANGTTTGA GAAAAACAAT CCCCATTATN 60
 ACCCATCTAG CAAAGAGGAC AACCCTAAGT GGTCCATGNG TGGATGTACA GTTTGTNCGG 120
 ATGATGAAGC GTTTCATTCC CCTGGCTGAG CTCAAATCCT GTCATCAAGG CNCACAANGC 180
 TACTGNTGGC CCTNAAAAA ATATTGTTNT NTGTCACTN 219

SEQ ID NO:5254

SEQUENCE LENGTH:144

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06272

SEQUENCE DESCRIPTION:

GATCAGCTG AAAGAATACC TTGCAGACAC TTAATCTCTG CGGCAAATGC ATGAAAGTAG 60
 AAGGATGAAG CCAACTTTCC AAAAAGTTTT ATGAAATTAC TTCAGTGNGA AAACCTATTA 120
 AATNAANTNC AGCCNTTCTN TAAA 144

SEQ ID NO:5255

SEQUENCE LENGTH:184

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06273

SEQUENCE DESCRIPTION:

GATCCCGGGG ACATGATGCG GGAAATCCGC AAAGTNTTGG ACGCCAATAA CTGCGACTAT 60
 GAGCAGAGNG AGCGCTTCTN GCTCTNCTGC GTCCACGGAG ATGGGCACGC GGAGAACCTC 120
 GTGCAGTGGG AAATGGGAAG TNTGCAAGCT GCCAAGACTN TCTCTNNACG GGGGTCCGGG 180
 TNTN 184

SEQ ID NO:5256

SEQUENCE LENGTH:97

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06274

SEQUENCE DESCRIPTION:

GATCAATGTG GGCACCTAAA AGGGTATGTT AAAATCACCA TTTCTCAGGT CAAAATACTG 60
 TGAATAAGTC TTCAATAGAA TCACTANTGG TTNAAA 97

SEQ ID NO:5257

SEQUENCE LENGTH:173

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06275

SEQUENCE DESCRIPTION:

GATCATATCT ACATGTATGA ACTTAACATG GAAAATGTTA AGGAAGCAAA TGGTTGTAAC 60
 TTTGTAAGTA CTTATAACAT GGTGTATCTN TNTNCTTATG AATATNCTGT ATTATAACCA 120
 TTGTTTCTGT AGTTTAATTA AAACATTNAC TTGGTGTTAG CTTTCTCAG AAA 173

SEQ ID NO:5258

SEQUENCE LENGTH:176

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06277

SEQUENCE DESCRIPTION:

GATCTTTCTG GGAGCTGCCG CGGACAGAGT GGGGAGCTCC TAGTTTNTGG GGGGAAGCTT 60
 TGATATCCAT GCCACGTCCA TCCACCCAC CCCTNTTCGT CACGAGCACA ATGGTCTTAC 120
 ATTGATNTN TGTAATAAAA TANAATAAAA TGGAGACTTT AACTCAAGCA ANNAAN 176

SEQ ID NO:5259

SEQUENCE LENGTH:93

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06278

SEQUENCE DESCRIPTION:

GATCATTGA ACCTAGGAGT TAGAGGCTGC AGTGAGCTAG AATTGCACCA CTGNATTGCA 60
CCTTGGACAA CAGAGTAAGA CTCGTCACC AAA 93

SEQ ID NO:5260

SEQUENCE LENGTH:296

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06279

SEQUENCE DESCRIPTION:

GATCAGGAGG CCACCCCTT CTGTGGCACT TCTGAGATGA CAACTTGTTT CACAGTTGGA 60
TGGGGGTGGG GAAGGAAAGA GCGGCCCAT TATCCAGAA CATTITATCC ACACAGGCTC 120
AGACACCTG TGATGAAGAG TCCAAGAACA GCCTGAGATA AGGATGTCAT TTTTNTTCA 180
CAGGNCCAC GATGGGTTTA TTTTGGGA CCAAGACATT GGGTCCCTAC ATGTTTTCCC 240
CTACCCTTCT NNGGGAATAA AATATCAAAC ANCCNCANA GNTGTNNTAT TNNTGN 296

SEQ ID NO:5261

SEQUENCE LENGTH:61

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06280

SEQUENCE DESCRIPTION:

GATCTATTGA CTGTAGAGG TTTGGGACAA ACAGGAATAT AAAGATTATG GAATTGGGAA 60
A 61

SEQ ID NO:5262

SEQUENCE LENGTH:339

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06281

SEQUENCE DESCRIPTION:

GATCACTGCA AACTCAAGG AGGCCCGGGG CAGAGGAAAA AAATTACCA CCGATGATTC 60
CATTTGTGTG CTGGGAATAA GCAAAAGAAA CGTTATTTT NAACCTGTGG CAGAGCTGAA 120
GAAGCAAACG GATTTTAAGC ACAGGATTCC CAAAGANCAG TGGTGGCTCA AGCTACGGCC 180
CCTCATGAAA ATCCTGGCCA AGTACAAGGC CAGCTATGAC GTGTCGGACT CAGGCCAGCT 240
GGAANCATGT GCAGNNCTGG NGTGTCTGAC CCAGTCCCGN CTGCATGTGC CTGCAGCCAC 300
CGTGGNCTGT CTCTTTTTTG TNACACTTAA GTTNTTTN 339

SEQ ID NO:5263

SEQUENCE LENGTH:258

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06282

SEQUENCE DESCRIPTION:

GATCTTATCT ACTTTCTCAT CTCCATATTT TGTAAAGAT AATATTGCCA GATGTAAAGA 60
 AAATGGTTTA TTCTACCTAA AGAGTGGATA AGGAGAGAAN ATTATGATGA AATAAAAATT 120
 ATAAGCAAAG TTTATTTAAN CTAAATTTAA ATGTGAAACA TCACCTTTTT CCTANTCAGA 180
 TTTGATATTG CTACGGATAT ATNTTGNTGA TATNGTCACT ATATANNCAT ANGGGGANTT 240
 TNACTNTCTA TTACCCTN 258

SEQ ID NO:5264

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06283

SEQUENCE DESCRIPTION:

GATCTCTCTC CTCTCTGACC TGGATACGCT TTGGTTTCTC AACTTCTCTA CCCCCAAGAA 60
 AAGATTATTC AATAAAGTTT CCTGCCTTTC TGCAAACATA AA 102

SEQ ID NO:5265

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06284

SEQUENCE DESCRIPTION:

GATCTAGATT TGAAAGTAAA TTTTATGAAG ACATTGCCCA TTTTACTTC CTCATTCATT 60
 ATTGTACCAG CATCATAGCT TTATTACTCT AATCCCAGGT AAGTCAAGCC TACACTGCCC 120
 TAGNGGNNGC GTAAACCCAG AANTTCATGC TGGCTTAANT AATCTATTTT TGTTCCTNAT 180
 CNTTTGAATN TTTAAN 196

SEQ ID NO:5266

SEQUENCE LENGTH:203

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06286

SEQUENCE DESCRIPTION:

GATCAGCCTG GGCAACATGG TGAGACCCTG TCTCTACAGA AAAGACCTGA AAATTTTAAA 60
 AAAAAGTATA AAGCCAAGCT GTTACCCAGC CACCTTGCTC ACATATTCTC AGGACCTGCT 120
 GAGGTGGTTT CACAGGTCAT AGTCCTCACA TTTGCTCAGA ATAAATATCT TCAAATATTT 180
 AAANNNGGN NANAATNTNT GNN 203

SEQ ID NO:5267

SEQUENCE LENGTH:136

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06288

SEQUENCE DESCRIPTION:

5 GATCTGGACT ATCCACGTGC TTGAAACTT TTCCCTCAC CCTCCAGCCC TGGAGGCTTT 60
 TGCTGGGATG AATGTTTTTA TAGGGTTTTT GTTGAACAT AAGCTATTTT CTAATATGCT 120
 GCCAGGTACC CTTAAA 136

SEQ ID NO:5268

10 SEQUENCE LENGTH:71

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06289

SEQUENCE DESCRIPTION:

15 GATCTNGGAC TACNACTGGA CTA TAGCCT CCAGAACTAT NAAATAATAC ATTTCTAATG 60
 TCTAAGCCAA A 71

SEQ ID NO:5269

20 SEQUENCE LENGTH:345

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06290

SEQUENCE DESCRIPTION:

25 GATCGGTTTT TGTGGGGAAT CTCCCTTATA AAGTTGAAGA ATCTGCCATT GAGAAGCACT 60
 TTCTGGACTG TGGAAGTATC ATGGCCGTGA GGATTGTNAG AGACAAAATG ACAGGCATCG 120
 GCAAAGGGTT TGGCTATGTG CTCTTTGAGA ATACAGATTC TGTTCATCTT GCTCTGAAAT 180
 TAAATAATTC TGAATCATG GGGAGAAAAC TCAGAGTCAT GCGTTCTGTT AATAAAGAAA 240
 30 AATTTAANCA ACAAATTC AATCCACGAT TGANGAATGT CAGTAAACCT AAGCAGGGAC 300
 TTAATTTTAC TTCCAAAAC GCAGAAAGNC ATCCTAAAAG CTG 345

SEQ ID NO:5270

35 SEQUENCE LENGTH:132

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06291

SEQUENCE DESCRIPTION:

40 GATCTCTGCT GTGCAGTGC TAAGATTAAA CACTAAAAAG AAAGAGAGAT ATATGTAATG 60
 TACAACTGAC ACTGCCATTT TNCCTTTTGG GAGGAAATGG ACATAGATAA AGAAGATATT 120
 TCTNCGGTTA AA 132

SEQ ID NO:5271

45 SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06292

SEQUENCE DESCRIPTION:

50 GATCTTCTGC CAAGTAATTT TTTTGCACAA TTTTCTGTN CCAAANTTTA CTCAGTTAAA 60

55

AGTAAANAA TNCCTTACAC GTTTTAGGTT TTAGGACATT AAAAGTATGT N 111

SEQ ID NO:5272

SEQUENCE LENGTH:117

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06293

SEQUENCE DESCRIPTION:

GATCATCTTA CGATATCAAG CTGAAAATTT CACCACTACC TGGACAGTTN CACATGTTTT 60

ACTGGAATA TTTTCTTT NTTTNTGTA TGCTCTGTGC TAGTAGGNTT GATTGAN 117

SEQ ID NO:5273

SEQUENCE LENGTH:232

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06294

SEQUENCE DESCRIPTION:

GATCATATTC ATTATGAAAG GTCAAGCAAA GACAGCAGAN TACCAATCAC TTCATCATT 60

AGGAAGTATG GGAACAAAGT TANGGAAATC CAGAAAGANG CCAAGATATA TCCTTATTTT 120

CATTTCCTTCA CAACTACTAT GATAAATGTG ANGAGGATTC TTTTTNTTG TGACCTATAA 180

TANTTNTACA NGCTTTCATG CATTTACTTG GTCCTAAGCA AATTANNGC AN 232

SEQ ID NO:5274

SEQUENCE LENGTH:56

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06295

SEQUENCE DESCRIPTION:

GATCAAGTAT AATGTTAGCT GCAGGTTTTT AATAAATACC TTAATTCAGT TTGAAA 56

SEQ ID NO:5275

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06296

SEQUENCE DESCRIPTION:

GATCCTGAAC ATGTGCTGAT TTNAATTGTG CTATATAGTA TATAAANTAA AATANTTTTG 60

GTATTCTGTC AACGTGACCT GATAATNAAT CTATTCATCC TGAGNAAGCT ATACTTCTGT 120

CCNTN 125

SEQ ID NO:5276

SEQUENCE LENGTH:198

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06297

SEQUENCE DESCRIPTION:

GATCATTGGT TCCANNCACA GGTNTAGTAA TNNTGGGTAC TTTAAGGTTT GGAGCACTTA 60
 CAAGGCTGTG GTAGAATCAT ACCCCATGGA TACCACATAT TAAACCATGT ATATCTGTGG 120
 AATACTCAAT GTGTACACCT TTNACTACAG CTGCAGAAAGT GTTCCGGNTA GACAAAGTTG 180
 TGACCCGGGG NNCTCTGN 198

SEQ ID NO:5277

SEQUENCE LENGTH:231

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06299

SEQUENCE DESCRIPTION:

GATCTCAAGT TGTATAAAC CAATAAATTT GTGTTACTGC AGTAGTAATC TTATGCACAC 60
 GGTGATTTC TGTATATAT GCAAAGNAGG CAACTGTTTT CTTAGTTACA GAAGTTTCAN 120
 GCTTCACTTT TGTGCAGTAG AAACAAAAGT AGGCTACAGT CTGTGCCATG TTGATGTACA 180
 GTTCTGAAA TTGTTTACA AGACTTTGAT AATAAAACCC TTAANCTTAA A 231

SEQ ID NO:5278

SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06300

SEQUENCE DESCRIPTION:

GATCAAGNGC CATAGCCTTT ATTCAGGGGG CCTATAAAC CCTCCAGTTC TTGCCCCAGG 60
 GCTGGCCTGC TAGCGCTTCA AATCCCAGG TGTCCCTAAT TTNAGAAGTA ACCTTTTGA 120
 ATAGCATTAG ACCCTGGCTG TCCCTCCCC ACCAAATAAA CATGATATTT CATTCTNAAA 180

SEQ ID NO:5279

SEQUENCE LENGTH:158

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06301

SEQUENCE DESCRIPTION:

GATCAAGNNT ANTGCAGCCN TTCTTTTCCT ATTTCTTTT TTNAAGGGTT AGTATTAACA 60
 AATGGCAATA AGTAGAAAAG TTAACATGAA GATTTTAGAA GGAGAGAACT TACAGGACAC 120
 AGATTGTNA TTCTTTGACT GTNACACTAT TGGATGTN 158

SEQ ID NO:5280

SEQUENCE LENGTH:375

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06302

SEQUENCE DESCRIPTION:

GATCGAACAT MACGTGGTGA TGAAAGCCAN CAGCAGCCTA CCCAAGAAGC TGGCACTGCT 60
 GAAGGCCCCA GCCAAGAAGA AAGGGGCAGC TGCCGCCACC TCCTCCAAGA CACCTTCTG 120

EP 0 679 716 A1

AGGACGCTGG CCCCAGTGCA GGCCAACATC NCACCCCTA CCTCCATATG GGACCTTGCA 180
GGTAATCCCA CAGGCTGCAC TGTAGGGGGG GGGACCCCTGT CCCCCAGCAC TGGGCTTCAC 240
CTAGAACTTC AGTGGGGGCC AAGGGTGCTG AGAACCCAGC AATGNCCAGG ANGATACAGT 300
CACTAACTT CATCTGTCCC CGTGCCCTT CCCAGGTCCT GNTTCACAGG TTTAACCCAG 360
NACANTAAAN CCTNN 375

SEQ ID NO:5281

SEQUENCE LENGTH:272

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06303

SEQUENCE DESCRIPTION:

GATCAGGATG AGATTAAATG CCCATATCTT ACCAGTTCAG TAATCTCCAG AGCCATTTC 60
CCCTTTAGAG TGAGTCACAT GCAGGGAGTG TGAATGTCAG AGGTGGTTTA TTATCCAGTC 120
TGCCTTACCC TTAATCTGTT CACAGATATT TATTACTAA TGCTTTTTT TTCTTAAGAG 180
TTATGGGATA GGAAAATGAA GTGTTTGCTC TTCATTTACT AAATGATTGT AAAGTTGAGT 240
TTTTCATCAA AATAAAATTC CATTGTTTAA AA 272

SEQ ID NO:5282

SEQUENCE LENGTH:379

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06304

SEQUENCE DESCRIPTION:

GATCCAAGGC CACAAGTAAG GCTATGGCTC TAATTCTAGA AGACAACCTT CCAAGATGCC 60
TGGCAAAACC ACCTCCCTGT GCCACACAGA CACTAGGC CTGTGATTT ATTCCCTT 120
CAAAGCAGAC TGAGGAGGGA GGAGACGAGG TTCTCTGGC ATCACTTTCT CCCTGGCTGC 180
AGAACTAGAC ACCCTGAAG ATTTGGCCTG GGCCAGTNAG ACTGAAATCA AGAAAAACAG 240
AAGGGATGTG CAGGGTGGGG GGGTNCCTT CCTGCTCCA TGTCACCCC CAGGGCCTCC 300
AGCGTGCAGA CGCGTGTCTT ANTTNATCTG CTCCCACGGA TGANCCTGGT CTTCAATGGG 360
TTAGCAGNNG NGAGATNTN 379

SEQ ID NO:5283

SEQUENCE LENGTH:377

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06305

SEQUENCE DESCRIPTION:

GATCCTCTGA AAAGGCCAG AAAAATAGCT CAGTTCAAAT ACAATGTTCT AGGACAATTG 60
GAATATAAAT ATTGTCCAAA AATATAATTA AAAGAAAAA GTTTAGCACT GTGTAAAGTA 120
AGTGTTAACT GAGGAAGTCC CAAAAAGGTG CTGTCACTTT AAGTTCTGGA CTTGGGGTTC 180
TTTGTATTG TAAACAGCAA NGCATTGTG TTTGTTGTC TATTGTAAA GCANCCACCT 240
TCCTTATTGG MAGNGANAA NNNGGGGTNC ATNCATGTNA NTACTTGCTG CAGCAATTNA 300
TATGTTTAT TTTGTGTAN GCTTTTTGTT GCATCGTGNW CACATTIATT GTTACCAATG 360
GACATGGGTT CTTTGTN 377

SEQ ID NO:5284

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06306

SEQUENCE DESCRIPTION:

GATCGTAGTG TTTTAAATA AACACAGTCC AGACTCAAAC GGAGGAAGCC CACATATTCT 60
ATTATAGATA TATAANTANT CACACACACA CTTGCTGTCA ATNTTTTGAG TCAGTGCATT 120
TCAAGGAACA GCCACANAAT ACACACCCNN N 151

SEQ ID NO:5285

SEQUENCE LENGTH:325

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06307

SEQUENCE DESCRIPTION:

GATCAACTGA GGAAACTCCA GGCCATGGTG ATTGANATAT CAAACAAAAC CAGCAGCAGC 60
AGCACCTGCA TCTTGGTCCT ACTAGTCTCC TTCTGCCTCC TCCTTGTTACC TGCTATGTAC 120
TCCTCTGACA CAAGGGGGAG CCTGCCAGCT GAGCATGGNG TGTGTCCCG CCAGCTTCGT 180
GCCCTCCCCA GTGAGGACCC TTACCAGCTG GAGTGCCTG CCCTGCAGTC AGAAGTGCCG 240
AAAGACAGCA CACACCAGTG GTTGGACGGC TCAGACTGTG TACTCCAGGN CCCTGGCAAC 300
ANTTCCTGCC TGCTGCATNA CNGAN 325

SEQ ID NO:5286

SEQUENCE LENGTH:204

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06308

SEQUENCE DESCRIPTION:

GATCTGCCTC CTGGGAAGGG AAGGGGCCAA TGTCAGCCTC CAGGTGATTT CTTAATCTG 60
ACATTACAAA GAGACCAACA GACTGCCAAT TCTACCACAT TCCCCTGGTG GGTACTCGAC 120
TATGTAGTTT TMTCTATGCT TCTGGTCAAC TCTGACACAT CTTGGAATTC TTGTAATAAG 180
AAAAGAAATT TTTATACTTT TAAA 204

SEQ ID NO:5287

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06309

SEQUENCE DESCRIPTION:

GATCCTCAAA CAGTCGGACC AGATGACAGC CAAACTCTGC TAACCCGGGA CTCCTTGCCA 60
TGGACTTTTC CTGTTGTTGT ACACACACAA CAGAACAAAA TGANGCAAAA CAAAACAAAA 120
AAACCCACAA AANTTTGTAA AATGTAATTA ATATTCAANG AAAAGGNGGA AANTCTTCAT 180
TTGTTGAAAA TGAAANC GTT CTAGCAACTG TAANNNANN 219

SEQ ID NO:5288

SEQUENCE LENGTH:259

SEQUENCE TYPE:nucleic acid

5 TOPOLOGY:linear

CLONE:HUMGS06310

SEQUENCE DESCRIPTION:

10 GATCTTAAAA TTCATCTAGA TTTCAAGCAT TCAGCTGACT TGCCTCATAA ATGTAGTGAC 60
 TGCTTGATGA GGTTTGAAA TGAAAGGGAA TTAATAAGTC ACCTCCAGT CCATGAGACA 120
 ACTNGATTAT TCTCTNTAAC TTACAGAATG TTAGTNTAAA ATAATAAATN CATCCTTNTT 180
 TTGGAGATGA TTAATGGAT GATTGTAAAC ACAACTTATG AAATCTGCCT NTACAAGTA 240
 NCTTTNTTAA ATNNTANNN 259

15 SEQ ID NO:5289

SEQUENCE LENGTH:99

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

20 CLONE:HUMGS06311

SEQUENCE DESCRIPTION:

GATCTTATTG GCTGATGGTG TTGTTGAATT CTATATCCTG TTGATTTGCT GTCTAGTTGT 60
 TCTATCAATT ATTAAAAGAG GAATGTTAAT GTTTCAAA 99

25 SEQ ID NO:5290

SEQUENCE LENGTH:81

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30 CLONE:HUMGS06313

SEQUENCE DESCRIPTION:

GATCAAATAC TTAAAGGAA AAAATGTTGG ATTTATAAAT NCTATTTTTT ATTTTACTTT 60
 TATAATAAAA GGAAAAGCAA A 81

35 SEQ ID NO:5291

SEQUENCE LENGTH:132

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40 CLONE:HUMGS06314

SEQUENCE DESCRIPTION:

GATCTGAAGG CCGTTCCAAG CGAGGGTGCT TCTGAGGACA CTGAGAAGAG TTTTGCCATT 60
 CTGAAGAGGC GAGCCTGTGG AACTNTTTAA GGTCTGTTC CCAGAAGAAT AAAAGTTTCT 120
 CATTATGGCA AA 132

45 SEQ ID NO:5292

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

50 TOPOLOGY:linear

55

EP 0 679 716 A1

CLONE:HUMGS06315

SEQUENCE DESCRIPTION:

5 GATCACTCTC CCTGACATCC ACCTGTATGA CTTTGTACC AAATGCTGTC TTCTCTTTCT 60
CCAATCAAGA AATAATAATC CCTCGAGTTT ACAAACACA AA 102

SEQ ID NO:5293

SEQUENCE LENGTH:196

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06316

SEQUENCE DESCRIPTION:

15 GATCTCANTC TCATGCCAGG CCTTGGGTTT GACAAACATG GCAACCGACT GGGGAGGGGC 60
AAGGNTACT ATNATGCCTA TCTGAAGCNC TGTTCGAGC ATCAGGAAGT GAAGCCCTAC 120
ACCTGGCGT TGGCTTTCAA AGANCAGNTT TNCCTCCAGG TCCCAGTGAA TGAAAACGAC 180
ATTGAAGNTA GATGNN 196

20 SEQ ID NO:5294

SEQUENCE LENGTH:237

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06317

25 SEQUENCE DESCRIPTION:

30 GATCAAGAAG TTTGTGTACA CATAATCTCA TTTNAGATA TATAACTATT TTTNTCTTTC 60
AGAAGTGAAT CAAAATATTT CAAAATGCTG TCTTATGAAA CTACAATATT CTCACAGATT 120
AGAAAAGTTT TNCTGTAAAA GTCAGATAGT AAATATTNA GGTTCGAG TGTCTNITGC 180
ANCTNCTCAA CTTTCTACT GTNGCACANG NGTAGCTGTG GTACTGTGCA AATNAAN 237

SEQ ID NO:5295

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

35 TOPOLOGY:linear

CLONE:HUMGS06318

SEQUENCE DESCRIPTION:

40 GATCACTACC TTTTCTCTC TNATCTGCTG CCATNTGAGA TGTGGCTTTC ACCTTCGCC 60
ATGATTGTAA GGCCTTCCCA GCCCCTGGN CCTGTAAGTC CANTAAACCT CTTTGTAAA 120
TTAAA 125

SEQ ID NO:5296

SEQUENCE LENGTH:198

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06319

SEQUENCE DESCRIPTION:

50 GATCTTACAG ACTGTATCAG TCTAATTTT AAATTTAAG TTATTTTGA CAGCTTTGTA 60
AATTCTTAAC ATTTTATAT TGCCATGTTT ATTTGTTTG GGTAATTGG TTCATTAAAGT 120

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ACATAGCTAA GGTAATGAAC ATCTTTTCA GTAATTGTAA AGTGATTAT TCAGANTAAA 180
TTTTTGTGC TTATGAAA 198

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SEQ ID NO:5297
SEQUENCE LENGTH:129
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06320

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SEQUENCE DESCRIPTION:
GATCTAATTT CCTNTTCAC ACAAACTTTA CACTTTAATC TGATGATTGG ATATTTAATT 60
NNAGTGAACA TCATCTTGTT AGCTAACITT AAAAANTGGA TGTAAGATGA TTAANGGTTG 120
GTATGATNN 129

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SEQ ID NO:5298
SEQUENCE LENGTH:143
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06321

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SEQUENCE DESCRIPTION:
GATCTGTGCC ACTTGTGTCA GAGAAGAAGA AACACGTAGN GCAAGTTGTA AAATAATTGG 60
TATTCCTAAC AATCCTGATG TATAATTNTT TGTACTTTT GNTTGAGAA CTCTACANAT 120
AAAAGTGCTG GGAAGTAGATT AAA 143

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SEQ ID NO:5299
SEQUENCE LENGTH:334
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06322

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SEQUENCE DESCRIPTION:
GATCTCTTCG ACTCCTACGA CCTTGGGGAC CTGTTGATTA ATTGAGTGGC CCTGCCTGCC 60
CCCAGCAGCC TGCCCCCGAC TCTACCTCCT CACAGACAGG CTGACAGCCC CTCTGCCTGC 120
ACAGGGACAT TGGACACTAG GTGCTGCCCT CAGGGCATGG GGTCTCCTCG CCTTTCCTGC 180
CCCAGCCGGC AGAAGCTGTG TGGGNGNNA TGAATGGTAC GGGTGAGGAG TGGATAAGGG 240
GTGGTCTCA CCTTNTAAT GGAAGCTGGG CCTAGGGAGG CCCATNCAGT CTTCTGACTT 300
CTNGACCTCT NACAAGAAGG NTGCAGGTGA GGTN 334

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SEQ ID NO:5300
SEQUENCE LENGTH:337
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06323

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SEQUENCE DESCRIPTION:
GATCTGGAGC CAGCTGGCTT TGCTCCGTTT CCTGGCTAGT CTGTGCCTGG TCACCAGGGA 60
GGCTGAGTGA GGGGCTGTGA ACAGTTGCCG GAAGCACCCC CTCCTCCCC GGGCCGTGCA 120
GCAGTGTCTG AGCTGTAGTG AAAGTTTCAG GGCCTGCAAA AGAAGAGGCT TGGGCACAGG 180

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ACTGACCATN GCTCCAGGGG TTAGGACCC CCAGGNCNGT GAAGGTGGGA GCAGCTCACC 240
 ACCTTTNACG CAGGCTTTGG TATGTTCTCT NAGGCTTAGT TGATTTTGGG CCCNAAANCA 300
 AATNCAAAAG GTTCTGGGC CAACCTTTTG TTAANTN 337

SEQ ID NO:5301

SEQUENCE LENGTH:326

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06324

SEQUENCE DESCRIPTION:

GATCACAGCT CCAGGACCAG TGCAGGCTGG CTGCCCTCTT TTGGCCGCGT CTGGAATAAT 60
 GGACGCCGCT GGCAGTCCAG ACATCAATTC AAAACTGAAG CTGCAGCAAT GAAGAAGCAG 120
 TCACATACAG AAAAAAGCTA ATCATGCTCT CTACCAACTA CCATGAGGCT AGNAAGCAAA 180
 GTCAACAAAC CCCTATTATA CCTTCCACCA AATTCTTTAT CATTGTCTTT CTTAGGAAAC 240
 AGNCATACCT ATTCATTGA TTTANTAAGG TTTTATTTT CCAANGTNG NTGTGGNTGN 300
 TTNGGNNNNN TTGTGGTGGT TGNGNN 326

SEQ ID NO:5302

SEQUENCE LENGTH:174

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06325

SEQUENCE DESCRIPTION:

GATCTTTNAT TTACCTGTAC AGGAGTGTA ACTTTTTNGT GNTTTTATTT TTCAATTGTG 60
 AGAACCACTG ATTGGTATGT TCAACAAATT TGTGTATACA AAGAAATGGA TAAATCACTG 120
 CTATATANGG GAAACTACCT TAGGAAAGAN TGTTTACTGA ATGTTTATNN NATN 174

SEQ ID NO:5303

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06326

SEQUENCE DESCRIPTION:

GATCAGTGAT ATTTGATGTT AGTGTGTAC TATAGGGTGC CAATAACTCT GCCTATACAA 60
 GATGGTGTAC TTAATCAATA AACGTGTATT CTGACTGCCT TAAA 104

SEQ ID NO:5304

SEQUENCE LENGTH:238

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06327

SEQUENCE DESCRIPTION:

GATCCTTCCG TCTCAGCTCC CCAACCCAG TAGCTGGGAC TACAGTTGCA CATCATCATG 60
 CCTGGCTAAT TTTTNNATTT TTGTAGAGGT AGGTTTCACT ATGTTGCCCT GGCTGGTCTT 120
 GAACTCCTGG GCTCAAGTGA TTCACCTGCC TCGGNCCTC AAAGNGCTGG TGTTTACNGG 180

CATGAGCCAC TGTGTCCGAC CCANACCTAC TANTGTTAAT NGANNTTTTN TTAACNN 238

SEQ ID NO:5305

SEQUENCE LENGTH:132

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06329

SEQUENCE DESCRIPTION:

GATCAACAGA GTGAGACCCC TGTCTATATA TTNNTTAAAT TAAAAAATA AAAGANTAAA 60
ATTGTGTAGC TCAGTATAGT ATCAAGATTA ATCTGCCTAC TCACATTCT ACACTTTATA 120
NNANTGTAAT AN 132

SEQ ID NO:5306

SEQUENCE LENGTH:293

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06330

SEQUENCE DESCRIPTION:

GATCCAGCCA TNACTAACCT ATNCCNNTTT TGGGGAAATC TGAGCCTAGC TCAGAAAAAC 60
ATAAAGCACC TTGAAAAAGA CTTGGCAGCT TCCNGATAAA GCGTGCTGTG CTGTGCAGTA 120
GGANACATC CTATTTATTG TGATGTTGTG GTTTTATTAT CTIAAACTCT GNTCCATACA 180
CTTGATAAA TACATGGATA TTTTATGTA CAGAGGTATG TCTCTTAACC AGTTCACCTA 240
TTGINCTCTG GCAATTTAAA NGANNGTCAG TAAATTNTTT TNCTTGTAAG AGN 293

SEQ ID NO:5307

SEQUENCE LENGTH:228

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06331

SEQUENCE DESCRIPTION:

GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGTATGTGGC CTTGAGGATA 60
ACCTNCACTG TAATAGCCTA AACACANCTC TAATTACTT ACAGCCTTAT GTTTTGTAT 120
TGNCTTGGTA GACTAGGTAA TTTTTTTTA AAGGNCAGGN GACGGNTATT TAAAGNCCA 180
ATTGTTCTA CGTAGCATNT TAACTAGTTT TNNTGCCAGC NATGTTGN 228

SEQ ID NO:5308

SEQUENCE LENGTH:113

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06332

SEQUENCE DESCRIPTION:

GATCCCTGAA GTTGCCCTGG TCTCTGCACC TTCTAAACCT AGTTCTTAAG AGCTTTCCAT 60
TACATGAGCT GTCTCAAAGC CCTCCAATAA ATTCTCAGTG TAAGCTTCTG AAA 113

SEQ ID NO:5309

SEQUENCE LENGTH:154

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06333

SEQUENCE DESCRIPTION:

GATCTGTCAC TGTCTCCCGT CACCCNCAGA TGGGGCTGTC TAGTTGCAGG AAAACAAGCT 60
CAGGGGCTCCC ACTGAGTCTC TGTGATNGTG AGTTGTAGAA TTATTTAANN ATATGTTACA 120
ATGTAATANT AGTAGAANTA AAGTGACAN TAAN 154

SEQ ID NO:5310

SEQUENCE LENGTH:214

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06334

SEQUENCE DESCRIPTION:

GATCTCTTTC CCTGTCTTGG AGGTGAAAAG TNATATCTAA GGNTNTGTTT GCAGTGACCC 60
CTAGTTTGGG GTACACAGAC CAGTGTTCCT NATTGACAGT GTTCAATAAG GCCCCGTCAT 120
TCTCGCCAGT NTNTTGTGT NCTTAATGGG CTCCTCCTTG AANTGTGTGT GTGTTTGTGT 180
CAAGAGGAGT TNGTGTCTT GGTAATAAA GNTN 214

SEQ ID NO:5311

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06335

SEQUENCE DESCRIPTION:

GATCTCTNCG ANTNAATTC AATCTAGGGA AAAATGGCAG AGAAGTAAAT GGATGTNCTG 60
GTGTCAATAG ATATGAAAGT GTTGGTTGGC GACTTGCAA TCAACAAAGT TTAATAAATC 120
GAATNNN 127

SEQ ID NO:5312

SEQUENCE LENGTH:67

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06337

SEQUENCE DESCRIPTION:

GATCGAGAAT NACNATNTTT TGTAAATGGA AATACCACTA CTAAGACAG AATGCTATAA 60
ATAGAAA 67

SEQ ID NO:5313

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06338

SEQUENCE DESCRIPTION:

GATCTTCTGT ACTTCTGTCT TCCATAGGAC AAATNATAAG TACTACATAC CTCATCTCTT 60
GGGTTATNAT TGTAGTCTTG CATTCTGAT TATNAATTA AAAATAAATA CCAATTATGG 120
AAATTGTAAA 130

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SEQ ID NO:5314
SEQUENCE LENGTH:106
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS06339
SEQUENCE DESCRIPTION:
GATCTACATN AGGAAAAGTA TAAGCCCCCT CCCTAATGGC CGCTGGGNGG TGAGGGCGGT 60
GTGTTGTATG TCTTTGGGTG TTTGTTNNTT NATAAAGCAT ATAATN 106

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SEQ ID NO:5315
SEQUENCE LENGTH:195
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS06341
SEQUENCE DESCRIPTION:
GATCTNAAAA AGAGAGAAGA AAATAAAAAAG TATTATTTAT ATGTCAGTGC CAACTTTGAA 60
GGTAAACAG TAGTAGTAAC TTTTGGGAGA AATTCTAAAA ACTACTTTAA AAAGAAGCGT 120
GCACATAAAA TAANTATCTT TCTATCCAAG GCTTGTCAAT TNATATGCTT TNNTTGATAA 180
TTTAANATNN NGCTN 195

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SEQ ID NO:5316
SEQUENCE LENGTH:136
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06343

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SEQUENCE DESCRIPTION:
GATCTAATTA CTTATAGATT CTGTAGTCTN GNGAAGGNGT GGGTGACGTG ATGAGAGGTT 60
TGAGAAATGG GTGAAATGAA ATGGGGGGAT ATGTAGGTCA AATCANATNA AAGATGATTT 120
TTTTNATGTG AATAAN 136

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SEQ ID NO:5317
SEQUENCE LENGTH:180
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06344

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SEQUENCE DESCRIPTION:
GATCAGCTTA AGGNTTTAGC GCTGGTGGAT AGACACTCGA GACCAGAAAT CATATTTTNN 60
CTGAAAGTAG ATGATTTACC TGAGGATAAT CAGGAACGTT TTAATAGCCT TTNCTCTCTA 120
AGGGAGAAGT GGACAGAAGA AGATATTGCT CCATATATTC AAGATTTGTG TGGAGAGAGN 180

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SEQ ID NO:5318

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SEQUENCE LENGTH:83

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06345

SEQUENCE DESCRIPTION:

GATCGCGGTA TATAGAGATA TGCATTTTAT TTTACTTGTG TAAAAATATC GGACGACGTG 60
GAATAAAGAG CTCTTTTCTT AAA 83

SEQ ID NO:5319

SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06346

SEQUENCE DESCRIPTION:

GATCTCCTTA GGTGATGCAC AGTCCAATA CCTGCTAACC ACCGCCGAGA ACGAGCTGGG 60
AGTGGTGGTA GCCACAGTG AGTCAGGTAT CCAGATGGTT CCCATCAGCT GGTGTGAGAT 120
GCAGTGCCCT AAGACCCACA CTAAGAATT CCGGAAAGTA GCCCGNGTAC AACCCGAATN 180

SEQ ID NO:5320

SEQUENCE LENGTH:126

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06347

SEQUENCE DESCRIPTION:

GATCAGAGAA TCACAAGAGC AGCAATGTG GTTTCATCAA GTGGGAAGAA AGCAGCAATT 60
TAAATANCT TTTTGGGNGA CTGANTTGAG TAATAATAAA NCTTCAGTCT TTCGCTAATN 120
ATANTN 126

SEQ ID NO:5321

SEQUENCE LENGTH:225

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06348

SEQUENCE DESCRIPTION:

GATCTAGACG CCCCCAAATC CTTGAGATGT GGGTATAGCT CAGGGTAAGC TGCTCTGAGG 60
TAAAGGTCCA TGAACCTGC CCCACTCCTG TCAGCCCCTC ATCAGCCTTT TCAGCAGGTT 120
CCAGTGCCTG ACTTGGGATA GGA CTGAGTG GTAGGAGGAG GGGGAGTGGA GGGGCATAGC 180
CTTCCCTAA TTCTGCCTTA AATAAACTG CATTGCTGAT TCAA 225

SEQ ID NO:5322

SEQUENCE LENGTH:341

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06350

SEQUENCE DESCRIPTION:

5 GATCAGCAAA TTGTTATNTT AAAAAGTTTT CTTGTTTAGG CAATTTGGTA AGTGGTTTCT 60
 AGTTATAAAC TAGCCACTGT TGATTAACCT GAGAAGGTGA AGCAGGGGAG TTCTGAAGAG 120
 ATTACCTAGA GCTACTTAAC CCTAAGTTAA GTAAAAATTT CACTTTCATT CTTTTCATT 180
 TCTCATAAAC TGGTTGAAAA AACACTGTAC TACCAACAAA GGTGTCAGTT GCTTGTGCTG 240
 CCCTGTCTAT GTTATGCTCT GAATAGGTCT CGGTAAAGAT TATATGGAAA TACTATAAAG 300
 NNTACATAAG GTAAATACT AGTCAGANAG GGTTCAGGTT N 341

10 SEQ ID NO:5323
 SEQUENCE LENGTH:157
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06351
 15 SEQUENCE DESCRIPTION:
 GATCTGAAGT NCTTCATTA TATCTATATC TGTATATGNA CATATATGTG GGTGTGTATA 60
 TATATGNGTG TATGTATATA TATACAATTN CCTGAGAACT CACTNTTTTT TGTGAATTTN 120
 CAATAGTGTT CGCCATGTTT TCCACCAGNA TGTATAN 157

20 SEQ ID NO:5324
 SEQUENCE LENGTH:94
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06353
 25 SEQUENCE DESCRIPTION:
 GATCAAGTTT TGATGAAGAT GTGAAAAACN GTTGGGCAGT ACTACTCAAG CTGAACCCCA 60
 TGCATCAGAG AAATTACACT TTTATATNTC CAAA 94

30 SEQ ID NO:5325
 SEQUENCE LENGTH:128
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06354
 35 SEQUENCE DESCRIPTION:
 GATCTGCCCT NCTCAGCCTC CCAAAGTGCT GGGATTAGAG GCGTGAGCAC CATGCCTGGC 60
 CAGGTCTTNC TAACTAAAAA ATAATAATAA TAATAATAAA AAANAAAAAGA NGATACTTGC 120
 AAAATAAAA 128

40 SEQ ID NO:5326
 SEQUENCE LENGTH:117
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06355
 45 SEQUENCE DESCRIPTION:
 GATCAAGAGT ATTTNCTNTA GCTAGCTTAA AAAGAAAAACA TATATTTAAT GTAAAAACAC 60
 ATACATGGCC AAATGCAATA CTGANGAGAC AATCATCCTG TATCTTTNAT GGTTTTN 117

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SEQ ID NO:5327

SEQUENCE LENGTH:334

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06356

SEQUENCE DESCRIPTION:

GATCAATGCG CTAGTGCAGG AGCTCGGCTT CTACCGCAAG GCGGCGCCCG ACGCGCAGGT 60
 GCCCCCCGAG TACGTGTGGG CGCCCGNAAA GCCCAGAGG AAACCTCGGA CCACGCTGAC 120
 CTNTAGGTCC GGGGGCGCGG CGGANCTGGG ACCTACCTGC CTGAGTCCTG GAGACAGAAT 180
 GAAGCGNTCA GCATCCCGGG AATACTTCTC TTGCTGAGAG CCGATGCCCG TCCCCGTGGC 240
 CAGCAGGGAT GGGGTTGGGG AGGTTCTTCC AACCGACTT TTTTCCTTC CNCAAGNTCC 300
 ACTAAATTT CCCTTCTGCN TTAACAAAAA AANN 334

SEQ ID NO:5328

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06357

SEQUENCE DESCRIPTION:

GATCAGCCAA ATTGGGCGGC CACCCCGNC TCCACCACTT TCCACCATCA GCTGCCAAAC 60
 TGGTCCCTCT GTCTCCCTGG GGCCTTGGGT TCTGTTTGGG GGTCATGACC TTCCTAGTTT 120
 CCTGACGCAG GGGNATACAG GGGAGAGGGT TGTCTTCCC CCCAGCAAAT GCAATAATGC 180
 CCTACCCCTT CCTGAGAGGA GCCCCTCCC TGTGGAGCCT GTNACCTTCG NATTTGACAC 240
 GAGTCTGCTG TGAACNCGC ANTCTGCTC NCACCTNCNA TCTNTCTNC CAGGGCCATN 300
 CCTGGGCCAG AGCAGGAGGG GAGGGAGGTN 330

SEQ ID NO:5329

SEQUENCE LENGTH:175

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06358

SEQUENCE DESCRIPTION:

GATCAAAAAT NTGTGGGTTT ATTTCTGGAG TCTCTGTTCT ATTGGTCTAT ATGTCCGTCT 60
 TCATGCTGGT ACTATGCTGT TTTATTTACT GTAGCTTTGT AATATATTN GAAATCAGAA 120
 GGTGGGATGC CTTAGCTTT GTNCTTTTIN CTCAAAATAA AAAATNCTTT TGAAA 175

SEQ ID NO:5330

SEQUENCE LENGTH:123

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06359

SEQUENCE DESCRIPTION:

GATCAAATCA GAGTAATTTG GATATTCATC ACCTCGAATA TTTATCTTTC CTTTGTGTTG 60
 GGAACATTAT AATTTCTCTC TGCTAGCTAT TTTAGAATAT ATAATAAATN ATNGTCCCCT 120
 AAA 123

SEQ ID NO:5331

SEQUENCE LENGTH:161

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06360

SEQUENCE DESCRIPTION:

GATCAAAGCC AGCCACCCCC ACCCCAACAC ACTCGGTGTC CCTTTCATCC TGGGCCTNTG 60
TGAATCCCAG CCTNGGCCAT ANCCTCAACC TCAGTGGGCT GGAAATAACA GTGGGGNCCC 120
TGTAGCAGTG GCAGAATAAA CTTAGATGTT NTNACAGGAA A 161

SEQ ID NO:5332

SEQUENCE LENGTH:139

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06361

SEQUENCE DESCRIPTION:

GATCNTCTCA GNGANGNCGC TTNGGTCGCA GTTTTAGGGG GTTCTCGGTT TGCAGGAACC 60
CTGGGTGCAG GTTCGCAGCC CTGTCAACCA GCTCCGAGCC GGCAGCGAAA CCTGAAGTGG 120
ACCTGTGGA AAATNAAGN 139

SEQ ID NO:5333

SEQUENCE LENGTH:145

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06362

SEQUENCE DESCRIPTION:

GATCTNCTCA CCCTCGGTGA NAACAGTGTC AGCCATGCAA GCAGGACAGA ATGGTGACTG 60
GGTGGCCCTTG GTGAGCTGTG TATTTCTTAG NAGGTAGAAA ACTGTGGGAA ACTGTGGCTA 120
ATAAAAACTA AGTGTGAGCG TCAAA 145

SEQ ID NO:5334

SEQUENCE LENGTH:351

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06363

SEQUENCE DESCRIPTION:

GATCTTAAAT NACCTATTTC TAATGTGATT CATACACGTT TTTNACTTAG TGGTTTAAAA 60
TATGAAAGTA TATAACACA TTACCAAACA CTTTGGGGTA GGAGAAGTAC GCTTAGCATG 120
TCTGTGTCAT ACCTAATTTT TTTAAAGCTA TAATGAACTG ATACACATCA ATTTANNNCG 180
NGGTTTTATT CTTTCAATGA ACACTGTATC AAAATTTTTT NATGANGTAA TGTTAGTCTT 240
TGTTGGTCAAT AGTTATTGGT AATACTACTA GTAATATGGG TNCATGGCTA TAAGATGCTT 300
TAGCTTAGTG GTCAGTTGTT ATNCTAAGGG GTTTNAATCN AATTNGGTNG N 351

SEQ ID NO:5335

SEQUENCE LENGTH:348

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06364

SEQUENCE DESCRIPTION:

GATCACAAAGT AGAGAACTTG TTTCTTTTCA CCCCTCTTGC TCCTCCCCGG AGTTATGAAA 60
 AATTTCAAAC CTGCCAAAAG TTTGAAGTTT ACAACAAATA CCCTCCAACG TTTGGNTTGC 120
 CTCCTCCTCC CTCTCTCTCC TTNCTCCCTC TGATTTCTTA CAGAACCACG CTTTCATGAC 180
 CATGCCCGGG AACTTCACGC TGGCGCGGTG AGGTCCTGCG CCTCCGNTN CNGCACACAC 240
 GTGCTTCTNA ATAGCTGCAG GCTATTTTCA TATAGGAATT TGCTCACGTT AACATNGCTG 300
 TTCCCAAATG CCAGGCTGNT TTTAAGTGGT TTCCTAATTT ATAAAGGN 348

SEQ ID NO:5336

SEQUENCE LENGTH:220

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06365

SEQUENCE DESCRIPTION:

GATCTCAATA GTCAGTTACT GATGCTCCTG AACCTATGT GTCCATTNT GCACACACGT 60
 ATACCTCGGC ATGGCCGCGT CACTGCTCTG ATTATGTGCC CTGGCCAGGG ACCAGCGCCC 120
 TTGCACANGG GCATGGTTGA NTCTGAAACC CTCCTTCTGT GGCAACTNGT ACTGAAAATC 180
 TGGTGCTCAN TAAAGANGCC CATGGCTGGT GGCATGCAAA 220

SEQ ID NO:5337

SEQUENCE LENGTH:227

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06366

SEQUENCE DESCRIPTION:

GATCCAGCC ATAAAGTACC TGGGATGAAA GAAGTTTTT CCAGTTTGT AGTGTCTGTN 60
 AGAATTACTT ATTTCTTNC TATATTCTCA TAGCACGTGT NTGATTGGT CATGCATGTA 120
 GGTCTCTTAA CAATGATGGT GGGCCTCTGG AGTCCAGGGG CTGGCCGHTT GTTCTATGCA 180
 GAGAAAGCAG TCAATAAATN TTTGCCAGAC TGGGTGCAGA ATTTAAA 227

SEQ ID NO:5338

SEQUENCE LENGTH:91

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06367

SEQUENCE DESCRIPTION:

GATCTTNACT CTTGTTTCT TGTCTCTTT NTTCAGACAG AGTTGTACCT GCAGCAGACA 60
 ACTCTGAATT AAAGCATGAA AACACAGCAA A 91

SEQ ID NO:5339

SEQUENCE LENGTH:269

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06369

SEQUENCE DESCRIPTION:

GATCTCTCCC CACACAGAGG CCAGCAGACC TCTTCCTGAG GACTTCTGTT TAAAGGAGGA 60
 CGAGGAGGAG GTTGGTGACA GTCAGGCCTG GGAGGAGCCC ACAAAGTGA GCACAGAGAC 120
 ATGGAACCTA GCTACTTCTT GGNAGGTGGG GCGGGNACTA CGGAGAAGGT GCAGCCAGGC 180
 TGTGGCAAAG GGCCCCANTC ACAGCCTTGG CTGGGAAGGN GGGNNGCACA GCTGANGGTC 240
 GACTAAACA AAGTCTGTTT TCATGNAAA 269

SEQ ID NO:5340

SEQUENCE LENGTH:67

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06370

SEQUENCE DESCRIPTION:

GATCTCTTGT NATGGGGCCA ATAAGTCAAT TGAATTCATG GGCCAAACAG TTCCATTCT 60
 CTTCAAA 67

SEQ ID NO:5341

SEQUENCE LENGTH:313

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06371

SEQUENCE DESCRIPTION:

GATCCTNATN ACGNAGCTGA TGCCTGCCTT GGTNCCTACC ACTCTGGTGT AGACAGAGGA 60
 CTTTNTCCAA GTGTCACT AAACATGCCC GGGCTTCGAT GTGCCTGGAG GATTTCCTCA 120
 CAGGGACCCA CGCAGCTCCC TGTATCTGCG CAGTTGCTCG TGTGGCTGGA AGCGCTGTCG 180
 ATAAGCTTCN NGGCGCTGGN TTGCCAGTTC TTCAGCTCTA GGACTTGTAG CTTTAAGCAA 240
 ACGGTGTGGC ATGGGNTTGA NGTNTGGCCA CCTGGCAGNG NTGTGCAGGG TCTTGCCTTA 300
 NNAAGCTGG CTN 313

SEQ ID NO:5342

SEQUENCE LENGTH:87

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06372

SEQUENCE DESCRIPTION:

GATCAAAAAA TATATGAAAG TTCCTTGTAG ATACATATCT ATAGATATAT ATGTNTATGT 60
 ATATAAGAT AGATATATAC ATTGAAA 87

SEQ ID NO:5343

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06373

SEQUENCE DESCRIPTION:

5 GATCTTTTTA TATTCTTCTA CCACACCTGG AACAGACCA ATAGACATNT TGGGGTTTTG 60
 TAATGGGAAT NNTATAAAG CATTACTCTT TTTNAATAAA TTGTTTTTNA ATTTAAAAAA 120
 AGAAA 125

SEQ ID NO:5344

10 SEQUENCE LENGTH:51

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06374

SEQUENCE DESCRIPTION:

15 GATCAGGTGG AAATGTTTAA GCTAAATAAA TCTAGGGGTT NTTNAACAA A 51

SEQ ID NO:5345

SEQUENCE LENGTH:273

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06376

SEQUENCE DESCRIPTION:

25 GATCTGAAGA AACAACGCAG TGTNCACGCA AGCCACTCAG ACAAGCCCAG GGGTTCCTTG 60
 GCCTTCTCAG TCAGCTAACT TTCCTGAGTT CTCCTTTGAC TTCCTAGGG AACAGTTGAA 120
 CAAGAGATTT TTCAATCAAG NCTTTGGAAC TACGAAGATG GAAGAGATTT GAAGAGGGAT 180
 ATNGAATGAG TAAATTAAGC AACTTTTTAN TATCCTATTT CTNTAAATNT CCAGATTTTA 240
 AAACATTCCT GTATTATANT ATCTAAAAAC AAA 273

30

SEQ ID NO:5346

SEQUENCE LENGTH:76

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35

CLONE:HUMGS06377

SEQUENCE DESCRIPTION:

GATCTAGATA TTTTCTCTT TTTCTGAAGN TACTTTCTTA AAAAATAAAT AAAATGTTTA 80
 TAGCATTCTT NGTAAA 76

40

SEQ ID NO:5347

SEQUENCE LENGTH:295

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

45

CLONE:HUMGS06378

SEQUENCE DESCRIPTION:

50 GATCAATTCT CCTTTGCGAG GNGACCACCA ANGGACTGCA GAGCTGNCCG GGCATTCTGT 60
 CGTGTTTCATG ACCGAGAACT TTNCACACAG AGAGGACTTC TGTCTGACG AAGGAGCGCA 120
 GAGCTGGCCG NGCATTCTGT CGTGTTTCATG ACCGNGAACT TTTCACAGCT AGGACTNCTG 180
 TCCTGACGTC TTTATNGGTA TAATAGTTGC GTTAAAGNCT GCAGACTTCA AGTTTATATT 240

55

TCTCTTTATT GTAACACTCT GTGCANNNTT TGATTNCTAG TTTATTNCA TTGTN 295

SEQ ID NO:5348

SEQUENCE LENGTH:416

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06379

SEQUENCE DESCRIPTION:

GATCGACCTG AGCACAGTGG ACCTGAAGAA GCTCCGAGTT AAAGAGCTGA AGAAGATTCT 60
 GGATGACTNN NNGGAGACAT GCAAAGGCTG TGCAGAAAAG TCTGACTACA TCCGGAAGAT 120
 AAATNAACTG ATNCCTAAAT ATGNCCCCAA GGCAGCCAGT GCACGGACCG ATTTGTAGTC 180
 TGCTCAATCT CTGTTGCACC TGAGGGGGTA AAAACAGTTC AACTGCTTAC TCCCAAANCA 240
 GCCTNTTTGT AATTTATTTT TTAAGNGGGC TCCTGACAAT ACTGTATCAG ATGTGAAGCC 300
 TGGAGCTTTC CTGGATGATG CTGNCCTGC AGTACCCCCA TGAGGGGATT NCCNTTCCTT 360
 CTGTTTGCTG GTGTACTNCT GGGGGNGGA AGTGTGTCTG GGGNNTTTT TNNTGN 416

SEQ ID NO:5349

SEQUENCE LENGTH:88

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06380

SEQUENCE DESCRIPTION:

GATCTGAAGA AGTGGTTAAG ACCAAGAGTT TATGTACCTT TTTAAACAAA GATTAATAAA 60
 TTTTGAAGA AGTGATGAGA CAAAGAAA 88

SEQ ID NO:5350

SEQUENCE LENGTH:259

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06381

SEQUENCE DESCRIPTION:

GATCAGAACA TGAACTTTT TTTTAAAAGA AGATTGAGC ATTTTCCTGT AATCACATCA 60
 AAATNATGTT TTCTGTGTA AGCGAGATAC ATATTNCTNA TAATGCAGCA TTGTGAGAAG 120
 TCAGTTCGGC CCACTGCACC ANCACTGTCG TATCCTTGT AAAATGGTGT GTACCTTACA 180
 ANTTATAATT TATGTGCCAG GTTCGTTTTG TNCCTAATTT GCTATTATTG TGCTGTGTNT 240
 ANCCCCTGTN NNCTNGGTN 259

SEQ ID NO:5351

SEQUENCE LENGTH:65

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06382

SEQUENCE DESCRIPTION:

GATCTTATAA AGTACTTGTG TGGAGCTTTG ATTCCACAGA ATAAAAGATA TTTTGTGTGT 60
 AGAAA 65

SEQ ID NO:5352
SEQUENCE LENGTH:226
SEQUENCE TYPE:nucleic acid
5 TOPOLOGY:linear
CLONE:HUMGS06383
SEQUENCE DESCRIPTION:
GATCTCAGCC CAGGACAAGG TGGGAATNAG TCAAGCCTGG ACTCTGGCCC CCCTGCCTGG 60
10 CCAGTAAGAA GGGCAAAGTC CAAGGGGAGG GATGAGGNAG GGGCCAGATG GGGTCCTGGA 120
GGAAGAATTN CCTGGCAAAA GCCATTGGAG CITGTNTGTG TGTCTTTGGT GATGACATNT 180
GTTGTGAGGG TAGATGGGAA CCATNTTAAA AGGATGAAAT GTGAAA 226

SEQ ID NO:5353
15 SEQUENCE LENGTH:305
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06384
SEQUENCE DESCRIPTION:
20 GATCCTTTTG TAAGGNCCTT CCTGAAGAAG AAAGGTGGCA AATACAGTNT TCAGTTCAAG 60
TTGCCCCAGC TGTATGGTGT ATTCCAGTTT AAAGTGGATT ACAACCGGCT AGGCTACACA 120
CACCTGTACT CTCCACTCA GGTATCCGTG CGGCCACTCC AGCACACGCA GTATGAGCGC 180
TTCATCCCCT CGGNCCTACCC CTACTACGGC AGCGGCTTTC TNCATGATGC TGGGGGCTCT 240
25 TTCATCTNTC AGCATCGGGC NGGCTTTGCA CATGNAGGGN GAATGNTGGA NGTCCGANTT 300
TTNGN 305

SEQ ID NO:5354
30 SEQUENCE LENGTH:356
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06385
SEQUENCE DESCRIPTION:
35 GATCTACATT CTTCAAAAA AAAAATTGGC TTAAGTGTTC CATCTTNAAG TAGCATTTTG 60
CTGCCATTTG TATTGGGCTG AAGAANTCAC TATTGTGTAT ATACTCAAGT CTTTNNATT 120
TCCCNCTTTT CATAAATNCT CTTGGNCATN ATTGGGCTTG CAGAGTTCCC TTATNCTGGG 180
GATTACAATG CTTTATCGT TTCAGGCTTC ATTTNNGCTT CAAANCAAGC TGGGCACACT 240
GTAAANCAAT GATTTTGCAG ANCCTTTGGT TTTGGACAGT TTCATTTTTT NGGATTGGG 300
40 ATAGATTNCA TAGGAGTATG GAGTATGCTG TAAATAAAAA TNCANGCTAG TGCTTN 356

SEQ ID NO:5355
45 SEQUENCE LENGTH:74
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06386
SEQUENCE DESCRIPTION:
50 GATCTTTAAC AGTCCTTTA CTTGCNCTTT GTAAAAAATA ATAAATTAG NTTGAATTAT 60

TCTACCTTTG TAAA

74

5 SEQ ID NO:5356
 SEQUENCE LENGTH:201
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06387

10 SEQUENCE DESCRIPTION:
 GATCCTGCTG GCCGAGCTCG AGCAGCTCAA GGGCCAAGGC AAGTCGCGCC TGGAGCAGCA 60
 GAATAAGNTC CTTAACTTAA AATAAATTAA TTTTTCAAA AAACATAAAT CTGGAAGTGT 120
 TGTTCCTATA TTTNATAACA AATACAGTAT ATNTNATNTA TAAGCCATGG TCTACTGATA 180
 TCGTATGAGG ACTTNCCTGA N 201

15

SEQ ID NO:5357
 SEQUENCE LENGTH:409
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06388

20 SEQUENCE DESCRIPTION:
 GATCAGAAGC TTAACATATG AACCTGCAGA AATCTGGTAA GACTTAAATT CAGTGTGAGG 60
 AATAACTCTA GTTCTCTCCT ATGAGCATT CTCTAAAAGCC ATCTGATTG GCATTCTTAC 120
 TGGAGCTGCA GACAGAAATC TACAAAAGNCN NAAGTAAACA AAATTAAGTT ATTATTCCAC 180
 TGTTAGGAAT GGAAATAAAC TTGTGAAGTC TGTTTATTTT GAAGTATTGG TGAAGTAGGC 240
 TTGCTAATNG GGAGCTGCAG CAGTTTGTGT TTAATCCAGT TCATCAGCTT AGGTCATTG 300
 AAAGNTATAA GAGCTTAAGG CAAGAAAGGA ATACCATGGG ATTCTATTN AGGGCCACCA 360
 GNCCATTCTT GGNAAGCAGC TCCNGTTTGG TTTTCCAGCT GTCAAACTN 409

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30

SEQ ID NO:5358
 SEQUENCE LENGTH:175
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06389

35 SEQUENCE DESCRIPTION:
 GATCTGCCCC TNCGGCCTC CCAAAGTGCT GGGATTACCG GCATGAGTCA CTGCGCCTGG 60
 CCGACAAAGG CTTTGATATC AGAATGAAC GTCAAGGGAG GTGCTGGAGA GGGATTAAAC 120
 TGTGCAGAGN CCAANNGGTA TCGAANNAAA ANTGGGATTG GGACTAGGTG NTCTN 175

40

SEQ ID NO:5359
 SEQUENCE LENGTH:104
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06390

45 SEQUENCE DESCRIPTION:
 GATCAGGCTC AGGCGGCCCC ACTCACCCAC AGCATCCGCC GCCACCCCTT CGGGTGTGAG 60
 CGCTCAATAA AAACAACACA CTATAAAGTG TTTTAAATC CAAA 104

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EP 0 679 716 A1

SEQ ID NO:5360

SEQUENCE LENGTH:106

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06392

SEQUENCE DESCRIPTION:

GATCTTTCCC AAGAGAAGGG GAAGCACTCG TGTGCAACAG ACAAGTGACT GTATCTGTGT 60
AGACTATTTG CTTATTTAAT AAAGACGATT TGTCAGTTAT TTAAAA 106

SEQ ID NO:5361

SEQUENCE LENGTH:382

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06393

SEQUENCE DESCRIPTION:

GATCTACGCT GCCTTCAAGG AAGTGCTGGG TTCGGGCATG CACCACCACC TCCAGAACAA 60
TGAGTACTC CGTGACATCT TTGGCCTGGG CCCTGTGCTG TTGCTGGATG CCACTGCCCT 120
GAAGGCTGC AAGGTTCCAC GCTTTGAGAA GCACCTGTAC AATGCTGCTG CCTTCAAAGC 180
CCGGACCAAG GCTCGAAGCC GTGTGCGGGA CAAGCGGGCA GACATCCTGT GAAGCAGGAC 240
CTGCTGAAGA GGAGACTTTC TATGCCCTTG GTCCGTATTT TTAACAGAAG ACAGTGCAAC 300
AACTGGTCTT CACCAGTATT TGTCACTTTA TTTTITTTAA TGTCAAAACC AAAACAGAC 360
ATGGGGTTGG GTAGCTGGGG GN 382

SEQ ID NO:5362

SEQUENCE LENGTH:354

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06394

SEQUENCE DESCRIPTION:

GATCCNATCA TTCCTTAAAC ATANTACCCT TNGTCTTGA GTAGAATACT AAGTTAGAGT 60
TAGTGGATTT CTAGTTTAGG AGAGGAGCTC AAAACTATAA TCTNTAACAA ATTGAAAAAT 120
GAAATAGGGT GTTTTCCCTT TTTGTGCACA CCTACATNAC CTTAAGAAAT NNCCTTCCAT 180
AGACAGCTGC CTCAAAGGGA AATCCTCTTT AAACCGTAGT TGGCGCAGAG GTCAGTCCTA 240
GTCGGAGCTT AGGAGGTGCG GNGACGCTCA CATCGTCTGG ACTTGAGTCG NCACTGGATT 300
GTGGCANCAN NTTNGCTCA TNGTCAAAA ATTTNGGCAA TTTCTTTTGG ATTN 354

SEQ ID NO:5363

SEQUENCE LENGTH:79

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06395

SEQUENCE DESCRIPTION:

GATCCAGGGC CTCGCCGCTT TCCTTCTTCC TTTTATATA CAATTGTGTA TTGTCAAATA 60
AAAGTAGGAA ATATTCAA 79

SEQ ID NO:5364

SEQUENCE LENGTH:238

SEQUENCE TYPE:nucleic acid

5 TOPOLOGY:linear

CLONE:HUMGS06396

SEQUENCE DESCRIPTION:

10 GATCTTTGTG GCCAAGGAGC TGCTATAGCC TGGGGTGGGG TCATGCCCTC CTCTCCCATT 60
GTCCCTCTNC CCCATCCTCC AGCAGGGAAA ATGCAGCAGG GATGCCCTGG AGGTGGCTGA 120
GCCCCTGTCT AGAGAGGGAG GCAAGCCCTG TTGACACAGG TCTTTCCTAA GGCTGCAAGG 180
TTTAGGCTGG TGGCCAGGA CCATCATCCT ACTGTAATAA AGATGATTGT NAAATAAA 238

SEQ ID NO:5365

15 SEQUENCE LENGTH:321

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06397

SEQUENCE DESCRIPTION:

20 GATCCTTGTC CGTGGCAACC TTAAACGTGT GCTGCAGTGC TGATGTATTT ATAGGCTTAG 60
CATGTCTGCT TTATTAGTTA TCCTGGAAAG AATGCTATTC AGTTTTTTTT TTAATGTCTA 120
CATCANGGAA TGAATGCTAA ATNAGCCCAT TTAGCAGCCT GAAATCAAAT NCTGCATTIN 180
TTTTTTNAAA CTCTGGTAG CAAAAGAAAA AGCTGATTAA ANTATGATTG TGTACAATG 240
25 ACTAAAGGGT TANCTNCTCA TTAATTCTAA ATNCTTCAAA ATGNACAAGC ATCATAATAA 300
AGGCTTTTGA TGNGAANTAA A 321

SEQ ID NO:5366

30 SEQUENCE LENGTH:409

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06398

SEQUENCE DESCRIPTION:

35 GATCTACAAG TCAGTGCCTT GTATGCTCTC CAGGTGCACT GCTATAACAG CAACTTCCCA 60
AAAGGCATGT TACTTCGCTT TTTTGTGCAC TTCTATGACA TGGAAATTAT TGAAGAAGAA 120
GCTTTCCTGG CTTGGAAAGA AGATATAACC CAAGAGTTTC CGGGAAAAGG CAAGGCCTTG 180
TTCCAGGTGA ATCAGTGGGC TAACCTNGTT AGAACTGCN GAAGAAGAAG AATCAGAGGA 240
NGAAGCTGAC TAAAGAACCA GCCAAAGCCT TAAATTGTGC AAAACATACT GTTTGCTATG 300
40 ATGTAAGTGC ATTTGACCTA ACCACTNGCG NAAANTNATT CCGNTGTAAT GTNTTCACAA 360
TATTTNAAAG CAGANGCACG TCAGTTTNGG NTTTCTTCT GCANAAAGN 409

SEQ ID NO:5367

45 SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06399

SEQUENCE DESCRIPTION:

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GATCCTCAGT ATAGCCGGTG AACCCTGATA CCAGGAGCCT GGGCCTCCCT GAACCCCTGG 60
 CTTCCAGCCA TCTNATCGCC AGCNTCCTCC TGGACCTNTT GGCCCCCAGC CCCTTCCNA 120
 CACAGCCCN AAGNGTCCC AGAGCTGACC NCACTCCAGG ACCTAGGNCC AAGCCTTN 178

5

SEQ ID NO:5368
 SEQUENCE LENGTH:75
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

10

CLONE:HUMGS06400
 SEQUENCE DESCRIPTION:
 GATCATTGTA ATATATTAN TTGTATATNA AGCATGACTA CTTTAAGTNT TAAATAAACT 60
 GCAATAATCC TAAA 75

15

SEQ ID NO:5369
 SEQUENCE LENGTH:354
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

20

CLONE:HUMGS06401
 SEQUENCE DESCRIPTION:
 GATCAGTGNC TGGCACCAGA CACTTCTGGG GATGGTACAG GGTGTGACAA CATGACCTGC 60
 ATCATCATTT GCTTCAAGCC CCGAAACACA GCAGAGCTCC AGCCAGAGAG TGGCAAGCGA 120
 AACTAGAGG AGGTGCTCTC TACTGAGGGG GCTGAAGAAA ATGGCAACAG CGACAAGAAG 180
 AAGAAGGCCA AGCGAGACTA GCAGTCATCC AGACCCCTGC CCACCTAGAC TGTTTTCTGA 240
 GCCCTCCGGA CCGTGAAGTCT AGTTTGGTC TTTTTCCTTT AGCCTTAGCA GTGGGTATGA 300
 GGTGTGCAGG GGGAGCTGGG TGGCTTCACT CCGGCCATTC CAAAGAGGGG TCTN 354

30

SEQ ID NO:5370
 SEQUENCE LENGTH:93
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

35

CLONE:HUMGS06402
 SEQUENCE DESCRIPTION:
 GATCACTGGA ATGTGGGGAT TCTGAAACAG AAATGAACT GTCCTTTGA CAACTCTCTT 60
 ATATAATAAA GTATACCGG CTTGTGTATG AAA 93

40

SEQ ID NO:5371
 SEQUENCE LENGTH:80
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

45

CLONE:HUMGS06403
 SEQUENCE DESCRIPTION:
 GATCATGCAT TATCTTTATA ATTCAAAAGA ATTTATATAT ATGTAAAGGA GGAGAAAATA 60
 AAAAAAATA TAATCTTAAA 80

50

SEQ ID NO:5372

55

SEQUENCE LENGTH:292

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06404

SEQUENCE DESCRIPTION:

GATCATNTTG ATAATGCTCG GAATATTTTN AAATGTCCAT TCCGCTGTGT TGATTGAGGA 60
 CGTTCCTTC ACGGAGAAAG ATTTAAGAA TGGCCCCCAG AACATATACA ACCTTTACGA 120
 GCAAGTCAGC TACAACGTGT TCATCGCTGC AGGCCTTTAC CTCTCCTCG GAGGCTTCTN 180
 TTTCTGNCAA GTTCGGCTCA NTAAGNGCAA GGANTACATG GTGCGCTAGG GCCCCGGNGN 240
 GTTTCCTCCG TCCAGCCNCT TCTCTATTTA ANGA CTGCNN GCACCGTGTC AN 292

SEQ ID NO:5373

SEQUENCE LENGTH:194

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06405

SEQUENCE DESCRIPTION:

GATCCTNCTG GCCGAGCTCG AGCAGCTCAA GGGCCAAGGC AAGTCGNGCC TGGGGGACCT 60
 CTACGAGGAG NAGATGCCGG ACTGCGCCGG NAGGTGGACC AGCTAACCAA CGACAAAGCC 120
 CGCNTCGAGG TGGAGCGCGA CAACCTGGCC GAGGACATCA TCGCNCCTCG GGAGAAATTN 180
 CAGGNNGGAG ATTN 194

SEQ ID NO:5374

SEQUENCE LENGTH:72

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06407

SEQUENCE DESCRIPTION:

GATCCTGGAT TCACTCACTC ACTCATTCTT TCACTCATCC AGCCACCTAA AAACATTAC 60
 TGACCATGTA AA 72

SEQ ID NO:5375

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06408

SEQUENCE DESCRIPTION:

GATCACGCAC GAAGGTACG AACTGACCCA GATTATCGCC GACGTGTCCC AGGACCCAC 60
 GTTGCCGCGG ACCGAGGACC ACCCGTGCCA AAAGTGCAGC CACAAGGAGG CTGTGTTCTT 120
 CCAGTNACAC AGTGCAGCGG NCGANGACGN CATGCGCCTT TACTACGTGT GNACAGCCCC 180
 ACANTGNGGC CACCGCTGGA CCGAGTGNC TNCNTGTN 219

SEQ ID NO:5376

SEQUENCE LENGTH:65

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06409

SEQUENCE DESCRIPTION:

5 GATCCAACAA GAACATTTC AAAAGTATCT AGGTGTTCTC AAATAAAAAAG CTTTCTTTGC 60
ACAAA 65

SEQ ID NO:5377

SEQUENCE LENGTH:97

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06410

SEQUENCE DESCRIPTION:

15 GATCTGCTAA TGCTTTTATG GAGTCTGCCT GGAAACTTTG ACATGGTTCTN TGTTTTTACT 60
CAAAATCCAA TAAACAAGG TAGTTTGGCT GTGCAAA 97

SEQ ID NO:5378

SEQUENCE LENGTH:206

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06411

SEQUENCE DESCRIPTION:

25 GATCCCAGAG AGCANCTTCA GTGACAAACA TATCCTTTCA AGACAGAAAG AGACAGGAGA 60
CATGAGTCTT TGCCGGAGGA AAAGCAGCTC AAGAACACAT GTGCANTCAC TGGTGTCAAC 120
CTGGAATAGG CAAGGNATAA CTCTTCTAAC ACAAATAAG TGTTTATGT TTGGAATAAA 180
GTCANCCCTG TTTCTACTGT TTAAAA 206

30 SEQ ID NO:5379

SEQUENCE LENGTH:84

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06412

35 SEQUENCE DESCRIPTION:

GATCACTTAA ATGATTTTNT GGTGATTCGT GCCATTGCTT TTTTATTAA AAGAAAAATT 60
TGTAATTAAT TGCCTTTTTC TAAA 84

40 SEQ ID NO:5380

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06413

45 SEQUENCE DESCRIPTION:

GATCACACCA GAGTACATGT CTCTGCCTCT NTTTTAGTG TGGCTTTGGA CAGGAATATA 60
TGAATAANTC ACTGCCATAC AGGTTTTCCA ATACACAAGT GCTAGAAAAAT ACACACAATT 120
CCCCAAA 127

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SEQ ID NO:5381

SEQUENCE LENGTH:229

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06414

SEQUENCE DESCRIPTION:

GATCAAAAAT GCAACTGAGA AAATNATGGC TCTTGTGCT GAGCTGTCCA TGAACAAGC 60
 CCTAACCATT GAACTCCAAA AGGAAGTCAG GGAGAAAGAA GACTTCATCT TCACITGCAA 120
 TTCCAGGATA GAAAAAGGTC TGCCACTCAA TAAGGAAATT GAGAAAGANT GGTGAAAAGT 180
 CCTTCGAGAT GAAGAAATGC ACGCCTTGGC CATCGCTGAA AAGTCTCAN 229

SEQ ID NO:5382

SEQUENCE LENGTH:71

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06415

SEQUENCE DESCRIPTION:

GATCCCTAAC TGTTCCTTA TCTGTTTTCT ACCTCCTCCT TTGTTAATA AAGGCTGAAG 60
 CTTTTGTAA A 71

SEQ ID NO:5383

SEQUENCE LENGTH:235

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06416

SEQUENCE DESCRIPTION:

GATCACTTAC AAATTTTTTG AATAACACAA AATCTCATT CACTGCAGT TTAATTGGAA 60
 AGATGTGTGT GTGAGAGTAT GTATGTGTGT GTGTGTGTGT GCGTGCACGC 120
 ACGTCTTGAG CAGTCAGCAT TGCACCTNCT NTGGAGAAGG GTATTCCTTT ATNAAAAATCT 180
 TCCTCATNNN NGNTTTGCTT TCAGTTGGTT TTCAATTNC TCACTGGCCA GAGAN 235

SEQ ID NO:5384

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06417

SEQUENCE DESCRIPTION:

GATCTTCCCT CTTCTGAACA GCAACTCCCC CCAACTCATA CACTGCCGTT TTCAGGGTAA 60
 GCGGCCTTCA CCCCTAAGTG AAAATGTTAG TGAATAAAG GAAGGAGCCA TTCTTGGAAC 120
 TGGACGACTT CTGAAAAGTG GAGGACGAGC ATGGGAGCAA GGCCAGGACC ATGACAAGGA 180
 AAATCAGCAC TTTCCCTTGG TGGAGAGCTA GGCCCTGCAT GGCCCCAGCA ATGCAN 236

SEQ ID NO:5385

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06418

SEQUENCE DESCRIPTION:

5 GATCCAGTAC TTGGCAGCCA TAGTTTAGAC AATATTGTTT AGTGCTGTGT TGCTNNCATG 60
TTAACAACAA AACCTTTTAG AGGNCCCACA AATCATNGGT ATNGGACACA GGTCCGAGGN 120
ATTCCAGAGC ATCAN 135

10 SEQ ID NO:5386

SEQUENCE LENGTH:261

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06419

15 SEQUENCE DESCRIPTION:

GATCAGCTCG CACAGAGGTT GTCTGCAAGC AGTGTGAAGC TCATCTAGGT CACGTGTTTC 60
CTGATGGACC TGGGCCCAAT GGTGAGAGGT TTGTCATGAA CAGTGTGGCT TTGAAGTTCA 120
ANTCAAGGGA ACACGTACCA TCTTCAAGAG TCCCGTTCCC TTGCCACCCC TTCACGTGCA 180
20 CCTCAATTT CCACAATTCA CTTGAATGAC TTGTNTTATT NGCAATAAAA CTGGGCTGAA 240
TTTGTGCTG TCTCCAAANA N 261

SEQ ID NO:5387

SEQUENCE LENGTH:300

25 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06420

SEQUENCE DESCRIPTION:

30 GATCATAGAC ATGATTATAT GTGAGTATCA TTAATCATTG GTTTATAGCA NTTNCTCTTT 60
ATTCCAATAT TATAATAATC CNCACCTCTAC AATCATAACC TAGGAAAAAC CAGGCCATAC 120
AGAGATAGGA GCCGAGGGGN CATAGTGCGA AGTGGCCAGA AGACAAGAGT GTGAGCCTTC 180
TCTTATGCCT GGACAGGGGC ACCAGAGGGC TTGGTCTAGC AGTAACACCA GTGTCTGGGA 240
AGATGCCTGT TGCAAAGTGG ACCATGGTCT AGCGGGGGGC ATCAGTGTC NNGTANNGAN 300

35 SEQ ID NO:5388

SEQUENCE LENGTH:299

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40 CLONE:HUMGS06421

SEQUENCE DESCRIPTION:

GATCAACAGT GGCAATGGAG CTGTGGAGGA CAGAAAGCCA AGTGGACTCA ACGGAGAGGC 60
CAGCAAGTCT CAGGAAATGG TGCATTGGT GAACAAGGAG TCGTCAGAAA CTCCAGACCA 120
45 GTTTATGNCA GCTGATGAGA CAAGGAACCT GCAGAAATGTG GACATGAAGA TTGGGGTGTA 180
ACACCTACAC CATTATCTTG GAAAGAAACA ACCGTTGGAA ACATAACCAT TACAGGGAGC 240
TGGGACACTT AACAGATGCA ATGTGCTACT GATTGTTTCA TTGCGGAATC TTTTTTGAN 299

50 SEQ ID NO:5389

SEQUENCE LENGTH:134

55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06422

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCGGCCTC CCAAGGTGCT GGGATTGCAG GTGTGAGCCA CTGTGCTCGG 60
CCTTATTAT ATTTATATA TTGTTGATAT GGTGAATTT ATGTATGCCA TAAATTATT 120
TGTTTCTATT TAAA 134

SEQ ID NO:5390

SEQUENCE LENGTH:303

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06423

SEQUENCE DESCRIPTION:

GATCAACGTC CTCCATGAGC ATGGNATAGT CCACCGTGAC ATTAAGGTG CCAATATCTT 60
CCTTACCTCA TCTGGTTTAA TCAAACTGGG AGATTTTGA TGTCAGTAA AGCTCAAAAA 120
CAATGCCAG ACCATGCCTG GTGAAGTGAA CAGCACCTG GGGACAGCAG CATACATGGC 180
ACCTGAAGTC ATCACTCGTG CCAANGGAGA GGGCCATGGG CGTGCAGCCG ACATCTGGAG 240
TCTNTGGGTG TGTTGTCATA GAGATNGTGA CTTGGCANGA GGCCTTGGCA TGAGTATGAG 300
NAN 303

SEQ ID NO:5391

SEQUENCE LENGTH:147

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06424

SEQUENCE DESCRIPTION:

GATCCAGAAG AAGTGACCTG AAGTTTCTGT GCAAACTNC AACTAGGCA ATGCCATTTC 60
AATGCATTAC TAAATNACAT TTGTAGTTCC TAGCTCCTCT TAGGAAAACA GTTCTTGTGG 120
CCTTCTATTA AATAGTTTGC ACTTAAA 147

SEQ ID NO:5392

SEQUENCE LENGTH:128

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06425

SEQUENCE DESCRIPTION:

GATCAATTG ACAGACAGAT GNGTGTATG CCCCTCCAN GTTGTACTTC ACACACTC 60
ATAACTTTCC AAATGAAGCC CCACAGTATA GCGCATATTT TNGATATTT TGTGAATNCC 120
ANNAGGAN 128

SEQ ID NO:5393

SEQUENCE LENGTH:122

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06426

SEQUENCE DESCRIPTION:

5 GATCCCTAGG AGCTGNCCTN CTTCCAGCCA NTGCCAGGAA CCAGCACTCC ATGAAGATAA 60
 ACTCTGGGCC CGACCACCAG CAGGNCCTGA CGACCTGAGG TGACCCTNGG CCTTTCCCCC 120
 NN 122

SEQ ID NO:5394

SEQUENCE LENGTH:57

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06427

SEQUENCE DESCRIPTION:

15 GATCACAAAT TTTGATATGT GCTATACAGG AAATAAAGTG TTATGATTGA GAATAAA 57

SEQ ID NO:5395

SEQUENCE LENGTH:359

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06428

SEQUENCE DESCRIPTION:

25 GATCTGAAAT CTTCACTAGG TTGATGTGGT TTCCTCTGCA GTGATTTTCC TAGGAAGTTC 60
 AAATTGACA GCGAGTTCAG CTCAGCTGTG GCCCTCTGCC CTTCCAGCTG TGCCTAGCAA 120
 GCAAAACCCA GGNAAGAAGC AGTNGCCTCC TGGCCTTACA TACAGAATGC CTGGACAAGA 180
 GAGAACTTGC TCGGNCCTGC TTTGTATTTT AAAACACAGC TTGNGAGTTC AGAGTTGGTG 240
 GTTTGCTCAC TTAGCGGTTG TTANGNTGGC TTGAAAAGTT TTCATTATGA TACACTGGGT 300
 30 ACCCTGGGCT TNGAATGTTN NCAACTTNGG NNNATCTNAT GGTTACCTNT GATTANNAN 359

SEQ ID NO:5396

SEQUENCE LENGTH:246

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06429

SEQUENCE DESCRIPTION:

40 GATCTACCCA CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCATGAGTCA CCACGCCCGG 60
 CCCTGNTTAT CAATCTTCAA TATTTTGTAT TTTGAGCACT TTGTTGGATT TGTATTATAG 120
 CACATGTATA CATTGTTTTA TTATAATATT GTGTGTAATT TATTTCTGAT TAATTTTATA 180
 TCCTTCCTTC ACATTTCAAA TACTTCTAAT TAAAAGCAGA CTGTTCAAAA AANNNNNGNN 240
 NGNNNN 246

SEQ ID NO:5397

SEQUENCE LENGTH:133

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06430

SEQUENCE DESCRIPTION:

5 GATCTGGCTG AGGGCTCAGG ACACAGGCCC AGCCACCCCC AGGGGCCTCC ACAGNCCGCT 60
 GCATGACAGC NATACAGTAC TTAAGTGTCT GTNTAGACAA CCAAAGANTA AATGATTCAT 120
 GGTTTTTTTT AAA 133

10 SEQ ID NO:5398
 SEQUENCE LENGTH:119
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06431
 SEQUENCE DESCRIPTION:
 GATCCTGAAC CAAATTTATA GCAATATAAT TAGTGTNTNT CTAAGGCATT ACTCATCAA 60
 15 AAAATTGCTG CAGTCTTTAC AGTTGAATAA ATAAAAACAA CTGCATAAAT ATGCCCAAA 119

20 SEQ ID NO:5399
 SEQUENCE LENGTH:80
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06432
 SEQUENCE DESCRIPTION:
 GATCACCACC TGTAGAAACT GTTCTTCCTC TGTGAACTA ACGGCCTGCT GGTAATAAAA 60
 25 GTAGCTACCA TTTCTTGAAA 80

30 SEQ ID NO:5400
 SEQUENCE LENGTH:130
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06433
 SEQUENCE DESCRIPTION:
 GATCACTCAT TGCTAATTTT GTCCTGTACA GCTTATGTAA TATTTNNATG GTGGAGACGG 60
 35 ACTCTGTGTG CTCAGGGCCT TGTCTCTAGG AAGATTTTGT CAATTCCTAAA TACAGTTTTG 120
 AAGATTCAAA 130

40 SEQ ID NO:5401
 SEQUENCE LENGTH:379
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06434
 SEQUENCE DESCRIPTION:
 GATCAACTGA TAAGTTGCCT TATGTCACCA TGGGTTCTGG CTCCTTGGCA GCAATGGCTG 60
 45 TATTTAAAGA TAAGTTTAGG CCAGACATGG AGGAGGAGGA AGCCAAGAAT CTGGTGAGCG 120
 AANCATCGCA GCTGGCATCT TCAACGACCT GGGCTCCGGA AGCAACATTG ACCTCTGCGT 180
 CATCAGCAAG AACAAAGCTGG ATTTTCTCCG NCCATACACA GTGCCAACA AGAAGGGGAC 240
 CAGGCTTGGC CGGTACAGGT TGTGAGAAAAG GGGACTACTG CAGTCCTCAC TGTGAAANTN 300
 50 ACTCCTCTNG AGATTTGAGG TTNTTGGAAAG AAACANGTCC AAACAATGGA CCACTTCCTG 360
 AATTGGCATC ANTGGTNNN 379

55

SEQ ID NO:5402

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06435

SEQUENCE DESCRIPTION:

GATCTGTAGT AAACAATGGT GATTTTATTT ATTTTNACTC TCTGGAAAAG GAGATAATAC 60
 AATTCCAGAA AGTGAAGTCA TATTTCTAAG GTTAAGATTG CCTTTTATTG CACCTAGAAT 120
 AGTGCTATGC ACAGAGCGGG TGCTTGAGTT GTTGTCGTTT TNTGTTTGT TTTTAAATGT 180
 AAAGTGGTAA ATNTTGTGCT TATCTTCAAG GCTAGCTTAN GTATAAAATN GTTTTTTAAA 240
 CACTTGNAAG ATTAAGGAT TTGTTTAAAN NANCANNAG GGGNGGTGGT TNGGTNN 297

SEQ ID NO:5403

SEQUENCE LENGTH:294

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06436

SEQUENCE DESCRIPTION:

GATCAATAG TTGCATAGCA GTATATGTNA ATTTGTGTGT TTTTAGCTGT GACACAGCTG 60
 TGTGATTAAA AGGTATACTT TAGTAGACAT TTATAACTCA AGGATACCTT CTNATTAAAT 120
 CTNTTCTTAT TTTTGTACTT TATCATGAAT GCTTTTAGTG TGTGCATAAT AGCTACAGTG 180
 CATAGTTGTA GACATGGTAC ATTCTGGGGA AACAACATTT NTNTGTNGCC TTTACTGTTT 240
 GATATACCAN ATNANAANAA AATTGGGTCT NATTNCTNAT GCTGGGGCAC CNTN 294

SEQ ID NO:5404

SEQUENCE LENGTH:103

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06437

SEQUENCE DESCRIPTION:

GATCCTCACC NCTTGAATT AAAATNCTTG TTTACTCAGG CAAGCCTACA GTTTGCAACC 60
 AAGTCTAGGG TTTCTGTAA TCAANGNCGT TTTTTCANTT AAA 103

SEQ ID NO:5405

SEQUENCE LENGTH:60

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06438

SEQUENCE DESCRIPTION:

GATCTGCTGG ACATCATGCC CCATGTCATA GAGAATAAAG CTGATGATTG TACCAGTAAA 60

SEQ ID NO:5406

SEQUENCE LENGTH:91

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06439

SEQUENCE DESCRIPTION:

5 GATCATACCN ATAAAAATAA TNCCAAACAC CAAATATGAA TTTTATGAAT GTACACTTTG 60
TGCTTNACAT TAAAAGAAAN AACACACAA A 91

SEQ ID NO:5407

SEQUENCE LENGTH:108

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06440

SEQUENCE DESCRIPTION:

15 GATCGTCGCC TGCTGGCTAA GACCAGGGAG CTAAAACTT NAGGAAGGGA ACCTGCCTGG 60
TTGGNTGCTA CTTCTGATTC ATTGTCTTN TCCCTNTCAT AAGTNCCN 108

SEQ ID NO:5408

SEQUENCE LENGTH:321

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06441

SEQUENCE DESCRIPTION:

25 GATCTTATGT TAAAGAGAT TCTGTTATTA GCACCATGAA CTCGTACTAT GAAATNTTAA 60
AGCCTTTTAT TTTCTAACT ATATTACTGT AGGACTGGAT ATTAGGTGTC ATATAGGAAA 120
CACAAAAGTT ATTGCTGTTT GCTAAAGCAA AGTAGCAGAA AATTTTGTAT ATGCAAAACT 180
GTTGAAGGNC CATAGAGAAA TGTGTACTAC TGACGGGGCT TTTACTAGGC TTCCTGCGTG 240
TGTAAGATC GAGGTTTGG CTTGGCATTG AGGGTGACAT GGTGGTGCTA AATTGTTTTC 300
30 CNTTTAAAAG GCNTTCTATT N 321

SEQ ID NO:5409

SEQUENCE LENGTH:390

35 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06442

SEQUENCE DESCRIPTION:

40 GATCCGCAGC AGAAGCTCTT CCCTTCTGTA TCCTATGTAT GCAGTGTGCT TTNCTTGCC 60
AGCTTGGGGC ATTCTTGCTT AGACAGTCAG CATTTGTCTC CNCCTTTAAC TGAGTCATCA 120
TCTTAGTCCA ACTAATGCAG TCGATACAAT GCGTAGATAG AAGAAGCCCC ACGGGAGCCA 180
GGATGGGACT GGTGCTGCTT TGTGCTTTTC TCCAAGTCAG CACCCAAAGG TCANTGCACA 240
GAGACNCCGN GTGGGTGAGC GCTNGCTTCT CAAACGGNCG AAGTTGCCTC TTTTAGGNAT 300
CTCTTTTGGG ATTTGGGAGC ACGATGNCCTC TNGAGTTTGA GCTATTAAAG NACTNCTTGG 360
45 CACATTAAANA AAANANAAAT GNGGTNNGNN 390

SEQ ID NO:5410

SEQUENCE LENGTH:197

50 SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS06443

SEQUENCE DESCRIPTION:

5 GATCCCAGGG AAATATCAGC CTTGGGCAAC TGCAGTGACC AGGGGCACCG GCTGCCCACA 60
GGGAACACAT TCCTTTGCTG GGGTTCAGCG CCTCTNCTGG GGCTGGAAGT GCCAAAGCCT 120
GGGGCAAAGC TGTTTTTCAG CCACACTGAA CCCAATTACA CACAGCGGGA GAACGCAGTA 180
AACAGCTTTC CCACAAA 197

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SEQ ID NO:5411

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15

CLONE:HUMGS06444

SEQUENCE DESCRIPTION:

GATCTTCAAG TGAACATCTC TTGCCCTGAT TGAAGGCTTT GCCACATGCT GGAAGGCCCC 60
CTCCCAGGAA GATGGGGGTC ATTAAGGAA ACTNAACATT GAAA 104

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SEQ ID NO:5412

SEQUENCE LENGTH:244

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06445

SEQUENCE DESCRIPTION:

30 GATCACCTGA ACAATCTAGA TGTGGACAAA ACCATTGGGA CCTAGTTTAT TATTTGGTTA 60
TTGATAAAGC AAAGCTAACT GTGTGTTTAG AAGGCACTGT AACTGGTAGC TAGTTCTTGA 120
TTCAATAGAA AAATGCAGCA AACTTTTAAT AACAGTCTCT CTACATGACT TAAGGAACTT 180
ATCTATGGAT ATTAGTAACA TTTTCTACC NNGNNGTCCG TAATAAACCA TACTTGCTCG 240
TAAA 244

35

SEQ ID NO:5413

SEQUENCE LENGTH:139

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06446

SEQUENCE DESCRIPTION:

40 GATCTNAGAA AANGCACCAC GTNAGCTTAC TAANTNATAA TATCTGTTTC TACTACGGAT 60
TTAGGCAACA GGACCTGTAC ATTGTCACAT TGCATTATTT TTCTTCAAGC GTTAATAAAA 120
GTTTTAAATA AATGGCAAA 139

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SEQ ID NO:5414

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06447

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SEQUENCE DESCRIPTION:

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5 GATCGGGGTC CATGGGCCCA CCACCCCTG CAAGGAGGTC TCCATGAAGC ATGTAGGCAA 60
 CCAGCAATAC AACGTCACAT ACGTCGTCAA GGAGAGGGGC GATTATNTNC TGGCTGTGAA 120
 GTGGGGGGAG GAACACATAC CTGGCAGCCC TTTTCATGTC ACAGTGCCTT AAAACAGTTT 180
 TCTCAAATCC TGGAAA 196

10 SEQ ID NO:5415
 SEQUENCE LENGTH:69
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06448
 SEQUENCE DESCRIPTION:
 15 GATCCATTAA TCTGCTAATT GGTTCCTAT GAAATCACAT TGTCTGTTAT TAAAGCTTTT 60
 TACCATAAA 69

20 SEQ ID NO:5416
 SEQUENCE LENGTH:119
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06449
 SEQUENCE DESCRIPTION:
 25 GATCTAGTAA AGTGTTTTAG AACCCCTTTT TATCCCATGC ACCATTCACT AAACATAAAA 60
 ATCACAATTC TGCTAATGTC ATTTGGAAC TCAAAATAAA TATCTGTCT AAAAACAAA 119

30 SEQ ID NO:5417
 SEQUENCE LENGTH:308
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06450
 SEQUENCE DESCRIPTION:
 35 GATCATTGCA TGAATAGAAT CAAGGAGCTC ACTCAGAGTG AACTTNAATT ATNACTTTNN 60
 AGGCTCATTT GTACTCTCTT CCCCTCTCAT CGTCATGGTC AGGCTCTGAT ACCTGCTTTN 120
 AAAATGGAGC TAGAATGCTT GCTGGATTGA AAGGGAGTGC CTATCTATAT TTAGCAAGAG 180
 ACACTATTAC CAAAGATTGT NGGTTAGGCC AGATTGACAC CTATTTNTNG NCNNTATGCG 240
 TATATTNCC TGTGCTATAT ATGAAAANTA ATTGCATGAT TTCTCATTCC TGNGTCATT 300
 CTCAGNGN 308

40 SEQ ID NO:5418
 SEQUENCE LENGTH:293
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 45 CLONE:HUMGS06451
 SEQUENCE DESCRIPTION:
 GATCTGAAGG GAGAAGGTGA TATTCATGAA AATGTGGACA CAGACTTGCC AGGCAGCCTG 60
 GGGCAGAGTG AAGAGAAGCC CGTGCCTGCT GCGNCTGTGC CCAGCCCGGT GGCCCCGGCC 120
 50 CCAGTGCCAT CCAGAAGAAA TCCCCCTGGC GGCAAGTCCA GCCTCGTNTT GGGTTAGCTC 180

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TGACTGTCCT GAACGCTGTC GTTCTGTCTG TTTCTCCAT GCTTGTGAAC TGCACAACTT 240
GAGCCTGACT GTACATNTT TGGATTGTT TCATTANAAA GAAGCACTT AAA 293

5 SEQ ID NO:5419
SEQUENCE LENGTH:180
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS06452

SEQUENCE DESCRIPTION:

GATCCTGGNA CATTCATAA GCTTGGGTAA AAAAATTTT TGTATNNTC CATGCACAAT 60
AAGGGAATG TTTAATTGG CTTGNGCCT CTTGCTTAC AACAGTCTG GCCTCAAGT 120
ACCAGGTAGC CTGAACCTTG NTTTTATTT ACCATTAANT TGCTTAATA CCATNGTAAA 180

15 SEQ ID NO:5420
SEQUENCE LENGTH:99
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
20 CLONE:HUMGS06453

SEQUENCE DESCRIPTION:

GATCACTGA GCCCANGTG AGGTTGAGGC TGCAGTGAAC TATNATTGTA CCACTGCACT 60
TCAGCCTGGG CAACAAAGGA AGACCCAGT TCTGGGAAA 99

25 SEQ ID NO:5421
SEQUENCE LENGTH:209
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
30 CLONE:HUMGS06454

SEQUENCE DESCRIPTION:

GATCCCTGCA TTNCCTGAAG ATNTTTAAAC GTGAGAGTNT GGTAGGCAAA GCAGTCTGAG 60
AAAGAAATAG GAAATGCAGA AATAGGTTTT TTTGGTTGC ATATAATCTT TGCNCTTTT 120
AAGCTCTGTG AGCTCTGAAA TATATTTNG GNTTACTTCA GTGTGTTGA CAAGACAGCT 180
TGATATTNCT NTCAAACAAA TGACTIONGN 209

35 SEQ ID NO:5422
SEQUENCE LENGTH:246
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
40 CLONE:HUMGS06455

SEQUENCE DESCRIPTION:

45 GATCCAGTGG AAAAAAGAGG GGAAACTATG GGAGTTCCCA ATTAACAATG AAGCAGGTTT 60
TGATGATGAT GGTTCAGANT TTCATGAACA TATATTTNG GAGAAACACC TGGAGAGCTT 120
TCCAAAACAA GGACCAATTC GCCACTTCAT GGAGCTGGTG ACTTGTGGCC TTTCCAAAAN 180
CCCATATCTT AGTGTAAAC AGNNGGTTGA NCACATNGAG TGGTTTAGAN ATNTTTTNA 240
TGNNA 246

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SEQ ID NO:5423

SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06456

SEQUENCE DESCRIPTION:

GATCTGCTCA GAAAGGAAGA GGCAGGCGCC AGGGNGAACC CCCTTCCGTG NTTTGTAAAC 60
CTCCCTNTAA GGTGAAGCCC TTTNCTTGC TAAAACCGGN AATTN 105

SEQ ID NO:5424

SEQUENCE LENGTH:159

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06457

SEQUENCE DESCRIPTION:

GATCCTGGGG GTCGTGGCTA CCCCCTCCTC GTGGCCGNNC TCCTTGCTGC TCCTGTCAAT 60
AGTGAGCTTG TGCCGTCCCN CTAGGATGGG GGCATGGCCN TGGGCTGCCA GATGCCACACA 120
GCACCCTGGC ATGACCTNCC ACCTNGGGTT CCANACCGN 159

SEQ ID NO:5425

SEQUENCE LENGTH:211

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06458

SEQUENCE DESCRIPTION:

GATCACCTAT CCCCTGTTTC AACAAATGAAT AAGGAACAGC AAATNTTTGA GACGTGCCCT 60
GAAACTGAAC AGAGATGCAC TCTCCAGTGA CTCCCAGCA AACACAAGGT GCAGCAGGGT 120
CCCAAAGGTA GCTGGNTGGC TGANCTGCTG GNTATGGGAG ATACATGACG CGAAGACGGN 180
TTTNACATCC ACAGGCGCGT NTTNANGAAA N 211

SEQ ID NO:5426

SEQUENCE LENGTH:66

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06459

SEQUENCE DESCRIPTION:

GATCCACCAC AGGGTTAGGG GACAGGAAGC CTGTTCTATT CTCAATAAAT CTTACAAAAT 60
TCCAAA 66

SEQ ID NO:5427

SEQUENCE LENGTH:189

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06460

SEQUENCE DESCRIPTION:

GATCATTATT TCCATTCTTA ATGTGAAAAA AAGTAATTAT TTATACTTAT TATAAAAAAGT 60
 ATTTGAAATT TGCACATTTA ATTGCCCTA ATAGAAAGCC ACCTATTCTT TGTTGGATT 120
 CTTCAAGTTT TTCTAAATAA ATGTAACCTT TCACAAGAGT CAACATTAAA AAATAAATTA 180
 TTTAAGAAA 189

SEQ ID NO:5428

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06461

SEQUENCE DESCRIPTION:

GATCTAGACA TGCCTTAGGT AACTGCAGAA ATAGCAAATT AAATNATTAA TGAGCTTATT 60
 AGTCATAGTA AACATACAGA TTCCTANTTC TATGACAGTG TACATNTATG ANAATAAATG 120
 ATGAAAAAAG AACTATAGTA TTTTAAAAA TATGCTTTTA TTTTATTNC ACATAGTGNA 180
 AAGTTCTACA NAN 193

SEQ ID NO:5429

SEQUENCE LENGTH:270

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06462

SEQUENCE DESCRIPTION:

GATCACATTT CTGGGAAGAT GAGANCTNNT TTCCAGACCA GCATCCAGTG GCCATCAGGT 60
 CTTGTGGCCC AAAGGCTATG CTTGCCCTCG GCTGAGTGCC TGGNATAGGC CTTTNCATG 120
 TCTCCCCAAG GCTGGGGTGC TGAGCCTGCC TTCCTCACCA CCTAGCCATA GTCTCAAACC 180
 TGTGGGAAG GNGGNNTTCT CCCTGCCCGG GAAGAGGACA GATAACTGAT TTCCGTTCTT 240
 TTGACTGTGT TTTAAAAATC TCTTTCTAAA 270

SEQ ID NO:5430

SEQUENCE LENGTH:162

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06463

SEQUENCE DESCRIPTION:

GATCTCCTGG GACTCCGAGC AAGGCCTGCA CGAGAGAGGG CTGAAAGGCT GCTGGGGCTG 60
 CCACCTCGCT ATTCCGCGAT AAGCATCTGC CCCCAACCCC TTGACCTTC ATCTGATGGA 120
 CATTTTATA CAGAAAACAA TAAAGATTTC CCTCTCAGCA AA 162

SEQ ID NO:5431

SEQUENCE LENGTH:83

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06464

SEQUENCE DESCRIPTION:

GATCAGTTGT ACTAGAGGAA CATCATAGAA GAGAAAAATC CAACTCTTTA TATTAATAAT 60

NAATACAATA AGAAAATTGC AAA

83

5 SEQ ID NO:5432
 SEQUENCE LENGTH:168
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06465

10 SEQUENCE DESCRIPTION:
 GATCTGCAAG CCCTGCTGTA CAAGAAAATC ATTAAGGAAC ATTTGGAGAG TTAGCTACTA 60
 GCTGCCTAAG TGTGCACTTT CAATCTAACT GTGAAAGAAT CTTCTGATGT TTGTATTATC 120
 CTNCTTATAT TATATTANCA AAATAAATCA AGTTGTGGTA TAGTCAAA 168

15 SEQ ID NO:5433
 SEQUENCE LENGTH:357
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06466

20 SEQUENCE DESCRIPTION:
 GATCCACCCA CCTTGGCCTC CCAAGGTGCT GGGATTGCAT GCATGAGCCA CTGCACCCAG 60
 CCAAGATACA TTGTTGACGT GAAAAAAAAA TTCAAGATA TATAGAACAG TGTAACATG 120
 CATCCAATTG TGTTTTTCAN GGAGAAAATA ATGTATACTT GTATTGGTTT ACGTATGAAA 180
 25 CAAAANTATC TAGAAGGATG AATAAAAATC TAGTAAGTGA TTNTACACTA GGGCAAAATTG 240
 GAAACAANTG GGNGACTTCA TGGATGACTT TTTTATATTT GTAAAGTGGG NGTGANTGTN 300
 TTACTTATTC CACCAGTTAN GTTGAAACCT TTNNNNGGNA GGTTNGTGGT GNTTNTN 357

30 SEQ ID NO:5434
 SEQUENCE LENGTH:175
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06468

35 SEQUENCE DESCRIPTION:
 GATCAGATGG CTTAGAGAAA TTNCTGGAAT ATTCACATTC GAAGATTCCT TATTAATNAA 60
 TGTCTTTNAC TTAAATCTAA CCAAAAACTG CAACATTATT CTTTGTACAT TTNCATTATA 120
 TAGTGTTAAC AAGCTTAGTT GCANACAANT AAAATACTTA AGCTATTTGT TAAAA 175

40 SEQ ID NO:5435
 SEQUENCE LENGTH:218
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06469

45 SEQUENCE DESCRIPTION:
 GATCTGGTGA AACTNGCTAA ACGNCTCAAG AAGGAGAAAG TTAATNTTGA CATTATCAAT 60
 TTTNGGGAAG AGGAGGTGAA CNCAGAAAAG CTGACAGCCT TTGTAAACAC GTTGAATGGC 120
 50 AAANATGGAA CCGGTTCTCA TCTGGTGACA GTGCCTCCTG GGCCCAAGTTT GGCTGATGCT 180
 NTCATCAGTN CTCCGATTTT GGCTGGTGAA GGTGGNNN 218

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SEQ ID NO:5436

SEQUENCE LENGTH:153

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06470

SEQUENCE DESCRIPTION:

GATCACAGTG GGCAGCCGGC ACCCNGCACC ACTTTGGCGA GCGTCCTGCT TCCGNCCTCG 60
 CCCTCATCTA CGCTGCTCCG CTTTCCTCAG ACCCCTTTT GCCGTGCAAA GGAATTCTT 120
 GACATTAAAT AAAAGGTATC CAGNTTGCAG AAA 153

SEQ ID NO:5437

SEQUENCE LENGTH:310

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06471

SEQUENCE DESCRIPTION:

GATCAGTTGG GTGCACGAGT GGGTTACATC GAACTGGATT ATAGGAAGCT TATAACAAGA 60
 ATGGAAGATT CTAAATAAC TCACTTTCTT TGGNATCCAG TAACAGTAGA TGTCAAAT 120
 ATGTAGCTGA TTAATACCAG CATTGTGAAC GCTGTACAGC CTTGTGGTTA TTAATAAGCA 180
 AGTTACTACT AGCTTCTGAA AAGTAGCTTC ANAATTAATG GTTATTNTA NACTGCCCTT 240
 CCNTGGCTGN TACTTTNCCC TAAGNTNAAT CTNCGAGAAT CTGAAATGNT TNCTNCANTT 300
 NTCAGGGAGN 310

SEQ ID NO:5438

SEQUENCE LENGTH:67

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06472

SEQUENCE DESCRIPTION:

GATCACATTN GATNAAAGAG CAAAACCTGT TAAGTCCAAA ATAAATTCTT ACTGTTTATA 60
 TCCTAAA 67

SEQ ID NO:5439

SEQUENCE LENGTH:268

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06473

SEQUENCE DESCRIPTION:

GATCCACAGA AGGTCCTGGT GGTATTGTGA ACTTTTGTCA AGGCATTTT TTATATATAT 60
 TTTTGTGCAC ATTTTTTTT ACGNTTCTT AGAAAACAAA TGTATTCAA ANGTATATTG 120
 ATAGTCGANC AATTCATATA TTTGAGGTGG AGCCATATGA ATGTCAGTAG TTTATACTTC 180
 TCTATTATCT CAAACTACTG GCAATTGTGA AAGCNATATA TATGNTATAT AAAGGTGATT 240
 GCNGCNTTNC ANTGTIAGCC CCNGTGNN 268

SEQ ID NO:5440

SEQUENCE LENGTH:306

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06474

SEQUENCE DESCRIPTION:

GATCCAGGCT CAGAACTTCT TCTCCAGCTT CACCCTGATG AAGCTGAGGC ACTCCTCCGC 60
TCTGGGTGGG GCCAGCCTAG GGGCCAGGCA CATCGGGCAC CTNCTCCCA TGGACTATAG 120
CGCCAATGCC ATTGCCTTCT ATTCTACAC CTNTTCCTAG GGGGCTGGTC CCGGGCTCCA 180
CCNGGTCAA GCTCAGTGA CACTGGGTCT GAAAGGAAGG AGTCTTTTGN TTCCTTTCTC 240
CTNTTACAN GAACAAACAT AGATGGTAAA TAAATNNACT TTNTCCNCT CCCCAGAANN 300
NAATNN 306

SEQ ID NO:5441

SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06475

SEQUENCE DESCRIPTION:

GATCAGCTAC ATAAACGGC CTGAGTGCTG TTTTAAACAG CNCTTGGGTG ATGGTACAAC 60
ATNACTTTTT AAGATAATNA NGTAGTAAAA GTTCTAGTG GAAACATGAA A 111

SEQ ID NO:5442

SEQUENCE LENGTH:255

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06476

SEQUENCE DESCRIPTION:

GATCCCAACA TTTTGGCAG TGAGCATTAC GATGTTANCC GTGGGGTGCA AAANATCTGA 60
ATAAAATTA CAAAAGGAGA ATTCAGACAG ACCAACCTGG GTNATGTGTT TCAAGCTCTG 120
CCCCAGGAGC TTGAATGTCT NTNCTNGTG GCAGGAGCAT TCCTAGAGAC TGGTGCATCA 180
GGTTTTATGT TGTGTCTCT CTGCTCCAGC TCACCCNTNA AANCTCTNCC CTNGGATGTT 240
GGAATCANA TTCTN 255

SEQ ID NO:5443

SEQUENCE LENGTH:313

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06477

SEQUENCE DESCRIPTION:

GATCCCATAA AGCTACGAGG GGGACGGGAG AGGGCAGTGC AATGGGAAGT AAAGAGATAT 60
TTNCCAGTAG GAAAAGCAAT GCTTCTTGT CTTTAGACTC AAATGCTTAG GGAACGTTTC 120
ATTTCTCATT CATGGGGAAA GGCAGCCTCC TTAATGTTT NCTGAAGAGC GGTAAATCT 180
AGAAGCTTAA GANTTTNCAG TTCCTTCAAT AACCATGATG ACCTGAAGTN CACCTATCCC 240
ATTTAGCAT CTNCTTGTTT TNCCATCTC TNCCTTTCCA ATTTNCTTA TNCTGCTGTA 300

ATATTTTGT AAA

313

SEQ ID NO:5444

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06478

SEQUENCE DESCRIPTION:

GATCAGCTCA CACCCAGTCT CTCACAAGTN TTCATTCCAT AAAAGTGGTT GACTAAAGTG 60
 AATATGTCCA TAGTGGGGTC TTTTAATCCC TCTGGTCTTA CCANGGGTTA GANGTCTNTN 120
 GGTNTAACT TTTCCATATT GTTAGAACAT CATGGNGACA TCATGTNCAT CTGTTCAAAA 180
 TTACAAGAGG CTTTNCNAAG CTCTACCATG CTTTGAN 218

SEQ ID NO:5445

SEQUENCE LENGTH:256

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06481

SEQUENCE DESCRIPTION:

GATCATTGTG AAGGCAGGGG AATGTATGTG CACATCTGTT TTGTAAGTGT TTAGATGAAT 60
 GTCAGTTGTT ATTNATTGAA ATNATTTTAC AGTGTGTGGT CAACATTCT CATGTNGAAA 120
 CNTTAAGANC TAAAATGNTC TAAATATCCC TTGGACATTT NATGTCTTTC TTGTAAGGCA 180
 TACTGCCTTG TTTAATGGTA GTTTTACAGT GTTCTGTGGCT TNGANCAAAG GGGCTTAATT 240
 ATTGATGNNT NGGATN 256

SEQ ID NO:5446

SEQUENCE LENGTH:344

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06482

SEQUENCE DESCRIPTION:

GATCCGGAAG CGAATTCATC TCCGAGCTGA GGATNCCTTG TTTTNTTTG TCAACAATGT 60
 CATTCCACCC ACCAGTGCCA CAATGGGTCA GCTNNACCAG GAACACCATG AAGAAGACTT 120
 CTTTCTCTAC ATTGCCTACA GTGACGAAAG TGTCTACGGT CTGTGAAGCT GCTGCCCTG 180
 AGCTGGAGGG GGGTCTCATT CTACAAAGAG AGAGGTGGCC CCCCTTTCTT GACCTGCTCC 240
 TCCTTCAAGC TTAAACANCA CCTCCTTATT CAGGACCGGC ACTTCTTAAT GTTTTGTGGG 300
 CTTTCTNTCC AGCTNTCTTT NGGNGGGGTA ATGGGTNGGA GTTN 344

SEQ ID NO:5447

SEQUENCE LENGTH:334

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06483

SEQUENCE DESCRIPTION:

GATCTTTCTA GGAGGGAGAC ACTGGCCCTT CAAATCGTCC AGCGACCTTC CTCATCCACC 60

CNATCCCTCC CCAGTTCATT GCACCTTGAT TAGCAGCGGA ACAAGGAGTC AGACATTTTA 120
 AGATGGTGGC AGTAGAGGCT ATGGACAGGG CATGNCACGT GGGCTCATAT GGGNCTNAGA 180
 GTAGTTGICT TTCCTGGCAC TAACGTTGAG CNCCTGGAGG CACTGAAGTG CTTAGTGTNC 240
 TNGGAGTATT GGGGTCTGAC CCCAAACAAC TTTCAGNTTC NNTAACATAC TGGGNCTTGA 300
 CTGTTTTNTC TNGGTNCCNN ATGGGTCCTG GTTN 334

SEQ ID NO:5448

SEQUENCE LENGTH:80

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06484

SEQUENCE DESCRIPTION:

GATCTAGAAA GCCCTAAGCT CTCACCACTG GCTACCTTGA GCCTCTACAG AATNAGGAAG 60
 TAAAGTCTAA GGCAGTAAA 80

SEQ ID NO:5449

SEQUENCE LENGTH:147

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06485

SEQUENCE DESCRIPTION:

GATCGCANCT CCGAAGACGG AGAGGAGGGA AATGGGGCCC TTTCCTCTCT ATTGCATCCC 60
 CCTGCCCGNC TCCTTCCCG CACCCACGTG CCCTAGATTC ATGGCAGAAA ATGNCCAAAT 120
 CCNGGTATT TGTGTANAT ANTAAAN 147

SEQ ID NO:5450

SEQUENCE LENGTH:109

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06486

SEQUENCE DESCRIPTION:

GATCATTGTA TATNACACAC ATGTATCAAA GTATCACATG TACTCCAAAT GTTTGTACAA 60
 CTATNATATA TCATTAAAAA AATACAAANT AAAAAATGTA GCTATGAAA 109

SEQ ID NO:5451

SEQUENCE LENGTH:274

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06487

SEQUENCE DESCRIPTION:

GATCCAGTGT GCAGAAGAGC CAGCAGGGAA CCGGAAGCTC TNATGTCAAG GCCAGAGCAG 60
 TTGAGANTGG GNCCAGAGT AGATGCTGAC CTGGGCACTC CACCATCCG GGGCCACCAC 120
 AGAGATGCCA GCAGGATGCC ACTTTNCCAG CCCGACACAC GGACCTTTNT AAAGANCAGC 180
 AACAGGCAGG AGAGGCAGCG TNTGNCCAGA TTGTTCCCG TCATTGGGTG GCATNTGTTA 240
 NCTAGCTGNC AAACANCTTC ANCCCGTGTG ATTN 274

SEQ ID NO:5452

SEQUENCE LENGTH:183

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06488

SEQUENCE DESCRIPTION:

GATCACGGCT CTTTTTAAGC CCTGGCAGCA TTTTGGTCCC TGCTCCTTGC CCATAGTAAA 60
 ACAGCTTGAA ATATCCCATG CAAGAGAGTA GTTTC AAGTG GGCAACTCTG CTCTCTATTT 120
 AAAAGCGTGC ACAATCAAAA GTACTATGCA ATTTTAGGAC AATAAAGANC ATACAGTTTT 180
 AAA 183

SEQ ID NO:5453

SEQUENCE LENGTH:215

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06489

SEQUENCE DESCRIPTION:

GATCACCAGT GGGCACTAGA TGATGTNGAA GAAGAGCTCA TGGCCAAANA CCTCCACTTC 60
 GAAGGCATGT TCAAAAAGGA ATTACAGACC TCTATTTTTT GAAGACCGAG CAGGGATTAG 120
 CTGTGT CAGG AACTTGGAGT TGCACCTAAC CTTGTAACTT TGTTTGGAGC TGGCACCTCT 180
 TGAAATAAAA AGGGAGGNTG CACGAGCTGG GCAAA 215

SEQ ID NO:5454

SEQUENCE LENGTH:70

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06490

SEQUENCE DESCRIPTION:

GATCAAAAAA TTCAATTNC TACAAGTTCT NCTATCTGAA ATAAATAACA GACTCATTTT 60
 TGACAATAAA 70

SEQ ID NO:5455

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06491

SEQUENCE DESCRIPTION:

GATCANGNTA GTGGTGTCTG TCAGCTGTCT AAGAGGTTGG AGAATNAACT ACTCAAGATA 60
 GTCACGAAAA NACTGAAAGT TTNATTTTCC TTTCCATATT TAAN 104

SEQ ID NO:5456

SEQUENCE LENGTH:214

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06492

SEQUENCE DESCRIPTION:

5 GATCCCAGTT ATCCTTGNAT CCATGTAATT TCAGATGAAT TATTAAGCAA ACATTTTAAA 60
 GTGAATTCAT TATTA AAAAC TATTCATTTT TTTCTTTGG CCATAAATCC NCTAATTNTC 120
 ATTA AAAATC TAAGGTCATT TCAACTGTTT TAAGCTGTAT TNCITTAATT CTGCTTACTA 180
 TTTTCATGGAA AAAANTAAAT TTNTCAATTT TAAA 214

SEQ ID NO:5457

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SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06493

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SEQUENCE DESCRIPTION:

GATCCAGAAT AACTTCTCCC ACTCATATCT NCAGTTCACC NAATGAAATN AATGGATAGC 60
 AAGAGCCCNT TGTTCACAGG ACTTTAAGGC AAAATATTAA AANTN 105

SEQ ID NO:5458

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SEQUENCE LENGTH:56

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06496

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SEQUENCE DESCRIPTION:

GATCCTTTTA TAAATTTAAA AAATTTAATG TTAATAAAGC GAGGTGTAAT TGTAAA 56

SEQ ID NO:5459

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SEQUENCE LENGTH:103

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06498

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SEQUENCE DESCRIPTION:

GATCCGNGAA AGGCTGAAAG GCCAGGAAGA CAGCCTAGCC TCTNCAGTGG ATGCTGCCAC 60
 CGNACAAAAG ACCTGTNACT CCGACTGAGG CATGNCCTGC CCN 103

SEQ ID NO:5460

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SEQUENCE LENGTH:190

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06499

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SEQUENCE DESCRIPTION:

GATCNTGAT NTAGAAGAGG TNACATTGCA CAATGTTTGA ATAAGGAAAC TATTGGAAAG 60
 TTTTCCAAG CTGACATTGC AGAAAAATGCT TTGNAAAATT CCTCAGAAAC AGAAATACCT 120
 ACTGTACCG TTTAGCTGA TGAAGANTTC CTTCCCTNCA AAGAAAATAC ATTTGACCTG 180
 GTGGTNNGCN 190

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SEQ ID NO:5461

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SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06500

SEQUENCE DESCRIPTION:

GATCCCGCCC ACTCAGAAAA GCGAGAAGG CTTTGTAATT TTCTACATGA ATCAAACACA 60
GAAACAACTT TTGGAGAAAT TAAATTCTGA GTGTNACTTC TGAAA 105

SEQ ID NO:5462

SEQUENCE LENGTH:83

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06501

SEQUENCE DESCRIPTION:

GATCTTCTTC ACACCAAGCT CTGTTTACAT TCCGAGAGTT GTCATGAAGA AAGTNCNTNT 60
CAATAAGNTT TTGGAATGTT AAA 83

SEQ ID NO:5463

SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06502

SEQUENCE DESCRIPTION:

GATCAGGACA CGAGGAAGAG TAAATGTGAG ACAGTCAATG TGACTTCTGC GATAAACAGA 60
TTTTTAAACC CCGAAATTTT GCAAAATTTT GGTGAACCTG ANCTTNCCTC GTTGCATATG 120
CTGGCACTAT CTGTACCATC ATACANCTGT CTCACATTAA AGCTATTTTC CTGGGGCAAA 180

SEQ ID NO:5464

SEQUENCE LENGTH:214

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06503

SEQUENCE DESCRIPTION:

GATCATCTCC CCTGGCAACG TGACTCTGTT TTTTGTGTGT GTTCCATGC TGACTAGTCC 60
CCTACTGTTA ATATCACTAC TAATTAGGCT ATAACCAGGT CTTTCCTGGC CTGAGAAATA 120
TTCTCTTAAA ATNACCTTTG TTTTAATCTC ATTCATGATG TTGATTTTTT TTCAATGTGG 180
TGCAATATAT ACANTAAAAA TNGTCATANC TAAA 214

SEQ ID NO:5465

SEQUENCE LENGTH:186

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06504

SEQUENCE DESCRIPTION:

GATCTGTCCA GGGAGGTGGC TGAAGAGTGG GCATCTCCCT TAGGGACTCT ACTCAGCACT 60

CCATTCTGTG CCACCTGTGG GGTCTTCTGT CCTAGATTCT GTCACATCGG CATTGGTCCC 120
 TGCCCTATGC CCCTGACTCT GGATTTGTNA TCTGTAAAC TGGAGTAAAA ACCTCAGTCG 180
 TGTAAC 186

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SEQ ID NO:5466
 SEQUENCE LENGTH:117
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06505
 SEQUENCE DESCRIPTION:
 GATCTTTGCT TCCTTCTAT TATGTTTGA CACAACACCT AAAACCAGTT TTGCTGCTAT 60
 ANTTCTATAC TGTTGATTCT TCTGCNANNT ATCTGTAAAC AAATAAACAT AATAGGN 117

15

SEQ ID NO:5467
 SEQUENCE LENGTH:309
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06506
 SEQUENCE DESCRIPTION:
 GATCCAAACC AAAGACTGTA GAACCTGGG GTGTGGCTAA CTGCCCCNTN CNGCACCCGT 60
 AGCCAGGTCT TCCTGGCCCT TNAGGCTGGG CTGGCGGACA GGCACCTNCC TGTTCTTAA 120
 GCTGAAGCTC CCACACTGTC TTCCAGGGCT GAGGAGATGC TCTCCTTTTC TACTGACCAT 180
 CTTGATACTT ATTTATACGA GAGNCAGTTG CTGGACGGGG TAGTACTGGG AAGCAGGAGG 240
 CAGAATGGCT CTGCTGAGCC TNCNACCCAT GGNCAACANC CTAATAAAAC AGANCATTC 300
 AGAGCCAAA 309

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SEQ ID NO:5468
 SEQUENCE LENGTH:97
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06507
 SEQUENCE DESCRIPTION:
 GATCCCATAC CAGAAGATGA GAAAAAGAA TAAGTGTTCG CTTGTTTTGT GTGTTCTAAA 60
 TACTTTTTNT AATGAAAAAA TGNTTTTNG TTTTAAA 97

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SEQ ID NO:5469
 SEQUENCE LENGTH:67
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06508
 SEQUENCE DESCRIPTION:
 GATCATCTAA ACTAAGTCCA GCTGCCTAAT TCTAGATATA TATATATATA TAGAGNTCCA 60
 CCATAAA 67

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SEQ ID NO:5470

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SEQUENCE LENGTH:72

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06509

SEQUENCE DESCRIPTION:

GATCTTGGGA AGTATTCCCA AGGAAAACAG TCCTGGGCAC AGTCTCCAAA ATAAATTCTN 60
 AATTTTGGGA AA 72

SEQ ID NO:5471

SEQUENCE LENGTH:467

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06510

SEQUENCE DESCRIPTION:

GATCCCATGG CTTTCTTTAC TGGGCTCTGG GGCCCTTCA CCTGTGTAAG CAGAGTGCTG 60
 AGCCATCACT GTTTCAGCAC CACTGGGAGT CTGAGTGCGA TTCAGAAGAT NACGCGGGTA 120
 CGAGTGGTGG ACAACAGTGC CCTGGGGAAC AGCCCATACC ATCGGGCTCC TCGCTNCATC 180
 CATGTCTATA AGAAGAATGG AGTGGGCAAG GTGGGCGACC AGATACTACT GGCCATCAAG 240
 GBACAGAAGA AAAAGGCGCT CATTGTGGGG CACTGCATGC CTGGCCCCCG AATGACCCCC 300
 AGATTGACT NCAACANCGT GGTCTCATT GAGGNCAACG GGGAAACCTN TNGNGACAN 360
 GTATTNAAGA CACNGTNCCC ACCTAGGCTG TGGNAGGGTG AAGGGCGAGT TTTCCCAAGN 420
 TGGTGGGCCT TNGTTNAGAN CTTTGTGTTG NGTTTGGNNC NNGNTAN 467

SEQ ID NO:5472

SEQUENCE LENGTH:327

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06511

SEQUENCE DESCRIPTION:

GATCTTAACT NTCTTGACTG ATTTAAAAAG CTAATCAATT TATTAAAGCC AGANATGTNC 60
 TCCTCTGGGA AAGCAATTTC TATCTATTTA TCTACCAATC CCCACTCACA TATATATGTT 120
 TGTNITTACA TAGAGATAGA TGGTTTAAAG GGTTTTCCTA TTGTTAAAT ATTTCCTAAG 180
 ACATTGTGGG NTGGAGACCA CTAACTTAT AAAAAACCA GGAAGTAAA GTTTTNCAAA 240
 TGTTTATACT GTTTAAGGTG TTTATTTATN TAANCCATGC ATGGGGTNNC ATGCATAANT 300
 NNNGNGGTTT AAATTTCACC AGTGANN 327

SEQ ID NO:5473

SEQUENCE LENGTH:70

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06512

SEQUENCE DESCRIPTION:

GATCAAGGAA CTTGTGCCTG TCTATAGATT TTATTTCCCC TGTACAAATA AACTTGGCTG 60
 CAATCCCAA 70

SEQ ID NO:5474

SEQUENCE LENGTH:414

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06513

SEQUENCE DESCRIPTION:

GATCTTGCAA GACTAAAATT GGCCATTAAG TACCGTCAAA AAGAGTTTGT TGCCAGGCC 60
 AATTGTCAAC AGCTGCTGGC ATCTCGCTGG TACGATGAGT TTCCAGGCTG GAGGAGAAGA 120
 CACTGGGCAG TGAAGATGGT GACATGTTTC ATAATAGGAC TTCTTTTCC TGTCTTCTCT 180
 GTGTGCTACC TGATAGTCC CAAAAGCCCA CTTGGACTGT TCATCAGGAA GCCATTATC 240
 AAGTTTATCT GNCACACAGC CTNCTATTG ACTTTTTGT TCCTGNTGNT GCTTGCCTCT 300
 CAGGACATAG GCAGGTCAGG NNTGANCNGG GAAGGTCCAC CANCACCATC GTCGAGTGA 360
 TGATATTGNC NTGGGTNCTN GGNNNATGTG TTANNTAGGA AATGTNATAA ANCN 414

SEQ ID NO:5475

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06514

SEQUENCE DESCRIPTION:

GATCAACAAT NAGCATCAAA TCTATGGCTC CTGGCTCCAG CANCAAGACG CAAGAAGACA 60
 GGANGAGAAG CANGAAGTGA GACTGGAGGG AAAGGGAGCT GAGTCTNCTA GN 112

SEQ ID NO:5476

SEQUENCE LENGTH:52

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06515

SEQUENCE DESCRIPTION:

GATCATTCTT TTATAGAGCA TATTTGCCAA TAAAGCTTTT GGAAGCCGGA AA 52

SEQ ID NO:5477

SEQUENCE LENGTH:223

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06516

SEQUENCE DESCRIPTION:

GATCTAACTT TGCACTCTTT GATAATAATG TTTTAGATAA TGTGCGTAAT CCAAATTGGT 60
 ATTGTAGCCT CTGTTAACAC AGACAGTATA TGTTTTAAAC TTTGATGTAA ACCTTTTNAG 120
 ACCCAAACCT GTGGAAGTAT CATGTGTAA GTNCTCTGTC TCTGTTTCTT TGTTCATTTA 180
 TTAATAAAAT GAACTTGTTA TTAAAGTATA TGCAAATNTG AAA 223

SEQ ID NO:5478

SEQUENCE LENGTH:144

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06517

SEQUENCE DESCRIPTION:

5 GATCCGGGGN AGCTGTATCC CCAGTAGAAA AAACATTTTA ATCACTCTAA TATAACTCTG 60
 GATGAAACAC ACCTTTTTTT TTAATAAGAA AAGAGAATTA ACTNCTTCAG AAATAACTAA 120
 TAAATGAAAA ACCTTTAAAG GAAA 144

SEQ ID NO:5479

10 SEQUENCE LENGTH:117

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06518

15 SEQUENCE DESCRIPTION:

GATCTTTTGA CGNNTATANA AATGTACTAA TGTNATAAGT TAATGCTGGN CATTTCAATT 60
 ATATATATTT TTAAGAGGCT AGAGGCITTT AGCTTTTAA AACTCCATTA TATACAN 117

SEQ ID NO:5480

20 SEQUENCE LENGTH:168

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06519

25 SEQUENCE DESCRIPTION:

GATCTTTTCAT TCTCATGCAG ATATTTCTAT TGTGGGCTTA TACATTTGNT CACCTATTGT 60
 TGATGGNACT TGNACITTC CATTTTGGCG CTATTACAAN TAGGCACTAT GAATGACTGA 120
 TGNACCACTT ACTTGAGCTT TATGNCTTAT TNTCAAAGCN GCAAAATN 168

30 SEQ ID NO:5481

SEQUENCE LENGTH:395

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35 CLONE:HUMGS06520

SEQUENCE DESCRIPTION:

40 GATCAGTTAT GAAGAAGGGA AAGCTTTGGC AGAATCTTGG AATGCAGCTT TTTTGAATC 60
 TNCTGCTAAA GAAAATCAGA CTGCTGTGGA TGTITTTTGA AGGATAATTT NGGAGGCAGA 120
 AAAAATGGAC GGGGCAGCTT CACAAGGCAA GTCTTCATGC TCGGTGATGT GATTCTNCTG 180
 CAAANCCTGA GGACACTGGG AATATATTCT ACCTGAAGAA GCAAGCTGCC CGTCCTCCTT 240
 GAGGATAACC TATGCTNCTT TTTNCTCCTG TTAACCTGNA AGATATCATT GGGNTCAGAG 300
 CTCCTNCTT TCAGATTATG TTACCTCTGA GTCTGTCCAA TGAGTCACTT CCATTTCAAA 360
 TTNNNNGCAT CNNTTTCAN TGTGTATGTA GNATN 395

45 SEQ ID NO:5482

SEQUENCE LENGTH:89

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

50 CLONE:HUMGS06521

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SEQUENCE DESCRIPTION:

GATCTTCCAG AGAAGGGAAC ATCTGTCACA GACAATGACT GTATCTGTNT AGATATTTCT 60
TATTTAATAA AGACGATTG TCAGTTAAA 89

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SEQ ID NO:5483

SEQUENCE LENGTH:137

SEQUENCE TYPE:nucleic acid

10

TOPOLOGY:linear

CLONE:HUMGS06522

SEQUENCE DESCRIPTION:

GATCAGAAAT GCCTCCTTA CCTACCAGAG CCTACAACAC TACCTGCCAC TAATAGTTAT 60
GTCACCTCT TATTAATCAT CATCTAGCCC TAAGTCTGGN CTATNAGTGA CTACAAAAGA 120
TTAGCTGAGT GAATAAA 137

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SEQ ID NO:5484

SEQUENCE LENGTH:250

SEQUENCE TYPE:nucleic acid

20

TOPOLOGY:linear

CLONE:HUMGS06523

SEQUENCE DESCRIPTION:

GATCAGGGGA AGAATACCAA CCTGCATAAG TGTACTAANT CTACGTCTGG TTAATGTATG 60
TACTCTCCTG GACTGAATGC AGTGTATAAT TCCTGTCTAC ANTAGAAGTG TGCCCCAGTT 120
CCACATTGA TTACACATGT GAGATTGCT GCTGTTGCAT ATAACACTAG GNTAATAGNT 180
TTGNATNCAT GCAGTCATAA AAATTGGAAT GAGAATTAAN CTGCAGGAAC ATTTGNACGN 240
TNTCTNCNCN 250

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SEQ ID NO:5485

SEQUENCE LENGTH:117

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06524

SEQUENCE DESCRIPTION:

GATCAGAACC AGAAAGAACT NTGCTTNACC GAGAAAATAT CTAACATCG AAAAAGTTAA 60
ATATTATGGA AAAAAACAT TGCAAAATAT AAAGTAANTA AAAAAAGGAA GGANCNN 117

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SEQ ID NO:5486

SEQUENCE LENGTH:118

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06525

SEQUENCE DESCRIPTION:

GATCTAATGC AGGATGTCAG ACTTNTNTCT ATCCAGGAAT AAAACCAGTT ATGCCAGAAG 60
TAACTATTAT NCACCTNTCT CCTACTGAAT TAAAATACTA TCAGTTGTAT ATNAAATN 118

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SEQ ID NO:5487

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SEQUENCE LENGTH:118

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06526

SEQUENCE DESCRIPTION:

GATCACAGTT TTCAGCANNT CAGACATGGT CTTGNGTAGT TGTTCACAG TGTTCGCCAG 60

CTACAGAGGA AANGNCAGAC TCACAGAAGG GTGTCATTA GAAGAAAGAA CACTAATN 118

SEQ ID NO:5488

SEQUENCE LENGTH:120

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06527

SEQUENCE DESCRIPTION:

GATCCTCAAC GAAATCAATC TCACAATAGG NAAGGAAAAG NCAATACAAG GAAGAAACCA 60

TTGAGAAGAT GCAGAATAAA GTAATCTTAT ATACANGCTT TGATAAAAC TTGAAACAAA 120

SEQ ID NO:5489

SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06528

SEQUENCE DESCRIPTION:

GATCGCCATC ANTGGGCTAG TGACAGNGTA TTAATTTGCT TATACANTTN CTTTACTNTC 60

CTTTTTCCT TTCTGGAGCA TCACATGCTG GTGCTGTGTC TTTATAATGT N 111

SEQ ID NO:5490

SEQUENCE LENGTH:422

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06529

SEQUENCE DESCRIPTION:

GATCCTACAG ATACAAGTTG CTAANGGGC ATATCAACAG TCCAACAAAT AAAGAAGATG 60

CCTGGATTGA GCATGATGTT TGGAGATGGA GATTATGTG TCTCTGGGAT TGTGGGTTGG 120

ANTACTGGTC TGTGGCTGTN ACANCTATTC CTCTGTGAGT GACTCTTGCA TGGAGAGATT 180

CATATATTCA GGCAGCTAGG ATTGTTTCCTT CTAAGGGAC ATACACGATT GANTTTNCTG 240

AATANGGGTA GTTAANCATT GTATGTTACN CNCACITTTG TGCTTTTCCT CCATTGTGCC 300

NTATTAAACG TCITTCGCNT CTGNGAGAGT CTGAGTAGC TGGTGGAGCG CCAAATACAA 360

CTGGTTGTCC GTGTGTNCTT TCCCTTTGTC ANTGGTTTGC CACATCAGTT TGTGNTGTAT 420

GN 422

SEQ ID NO:5491

SEQUENCE LENGTH:192

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06530

SEQUENCE DESCRIPTION:

5 GATCCCCCAG ATACCAGCTC TTCTGGNTAT ACACAGACCA GCTATAATTN GCTAAGCATA 60
 AANTATTNCA GTGTATTAGC CAGCNGTGGC TCCAGAGTCT GTGCCCTTGA CCACCGTGCC 120
 CAACTGTTTC ACATGCTGTG TTTGGTAGTT TNNCCTAGTG CTCTCCTTAA TAATGGTGGT 180
 GTNTAGCAAA NN 192

SEQ ID NO:5492

10 SEQUENCE LENGTH:108

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06531

15 SEQUENCE DESCRIPTION:

GATCATTAGG TCAGAGTTTA CAGCNCCTCT CGTCACTAGA ATCCACCCAG CCCACGAATC 60
 ATCACCNCCT TGAAGGACAT TATTACTACT GNAANTTNGA ACAAACNTN 108

SEQ ID NO:5493

20 SEQUENCE LENGTH:329

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06532

25 SEQUENCE DESCRIPTION:

GATCCATCCA GAACAGCGGT ATCTGAAGCC CAGGCCATAC TCCCTGCCTC CTTCCTTCTG 60
 CCTACCAGAG GCTCCANAGT TGAGCTTGTC CNNTATCTAG AAACATGTGA AGATGCCCAA 120
 GAGCCTGGAG GCACTGCTGT CCTTCCTNCA GAAACAGTTT CTCCTCCTNC CCTCAGCCTT 180
 GTGGCCANTT CCNCTTCACA TGAAGCCCTT TGGCATTINC TNGGGAAGGG ACTNGCCTGG 240
 30 TACTTGCTGT TAGGGCAGGA AGGGGCAAAN GGNNGACTTT GGGTAAGTAA TCTGGGGGGT 300
 TTAGATGGGN AGCANTAAGC CAGCTNGGN 329

SEQ ID NO:5494

35 SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06533

SEQUENCE DESCRIPTION:

40 GATCATGCTT GTNTNAGGCA ATCATGGTGG CATCACCCAT AAAGGGAACA CATTTAACTT 60
 TTTTNTCTCA TATTTTAAAT TACTACANGA TTATTAAAGA TAAATNATT TGA AAAAATC 120
 TTAAA 125

SEQ ID NO:5495

45 SEQUENCE LENGTH:337

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06536

50 SEQUENCE DESCRIPTION:

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GATCATGAGA CTGAAATTGG TCAGAATTGT GTCCAGAATG TGCTCAGCTA ATTCAGTATT 60
 CTTCGCCATT CTGGGTTGGA GTTACTGCA GAGTAATTCT TACAGTGCTG ATGTCAAGAC 120
 TGTTACTGTT CTTGACTTTT GATTCCTTGC TCATGACATG AGTAGGGTGT GCTCTTCTGT 180
 CACTTCACAC AGACCTTTTG CCTTTTTTAG CTGCAAGTCA AGGACTAGGT TGATGATGCN 240
 CATGACCTGT AATTGTAAAG ANGCTTGGNC ATCTGCAAAT GATATTNAGA CCATCTNGGC 300
 TTGTGCTTNN ATTCAAATA ATGTGAACCA ATANGTN 337

SEQ ID NO:5496

SEQUENCE LENGTH:194

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06537

SEQUENCE DESCRIPTION:

GATCCATGAT GATAATTAAG AGAAGAGAAA AAAAGATATT ATTTTGTNA GGACAAACCA 60
 TTGTAGGTTT TTAGCAATGT GTATCTGTGT GTCCCTCACA CCTTTTCTTA TTCTACTTTT 120
 TTTTCCTTTT TTTAAAAATA TTATGTACTA TATTTTNAGT CTCAAACACA CTATATATTA 180
 TATATNTNNN NNNN 194

SEQ ID NO:5497

SEQUENCE LENGTH:207

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06538

SEQUENCE DESCRIPTION:

GATCATTTCT AGGCAAAATT GTGAAGCTAA TGACCAACCT GTTCTACCT ATATGCAGTC 60
 TCTTTATTN ACTAGAAATG GGAATCATGG CCTCTTGAAG AGAAAAAGT NACCATTCTG 120
 CATTIAGCTG TTTTCATATA TTGCATNTCT GTATTTTTTG TTTGGATTGT AAAAAGTTCA 180
 CATAATAAAC GATGGTTGTG ATGTAAA 207

SEQ ID NO:5498

SEQUENCE LENGTH:320

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06539

SEQUENCE DESCRIPTION:

GATCCAAGTG ACCAAAGGAG TTCAAGGCC AAAATTAGT TATGCTGGAT TAATTCTGAG 60
 AGTAACAAGC ACATAGATTA TAATCTAAGA AAACCCTTTG TAGCTATGCA TNGTCGGGAG 120
 AGCATCTAAC ACTAATGGTG ATGTTTCCCA TGCAGAGACT CAGATTACAG TGACTCTTCC 180
 AGTGAAGACA GATGAAAGCC ATTGGGCATT GTNCCTTTNT TAATCCAAGC TAAACTANCC 240
 AAGGATATAG GGGTGTGTAT GTGTCTGNGT GTGTGTGTTT GTNTGTGTGT GCACATACAT 300
 NTNTAGGTAT GGTGTTTGGN 320

SEQ ID NO:5499

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06540

SEQUENCE DESCRIPTION:

5 GATCTGTCTT GGTCGTTTGT GTTATAAAAC CAAAGTTCTC TACAGACTTT ATTTTGTAC 60
AATATCATTT TGTAACTTT TACAAATAAA AACTCATTTT TATTGCTCTC TGAAA 115

SEQ ID NO:5500

SEQUENCE LENGTH:314

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06541

SEQUENCE DESCRIPTION:

15 GATCACTTAC GGAGAAACAG GAGGAAATAG CCCTGTCCAG GAGTTCAGTG TGCCTGGGTG 60
CAAGTCTACA GCTACCATCA GCGGCCTTAA ACCTGGAGTT GATTATACCA NNACTGTGTA 120
TGCTGTCACT GGCCGTGGAG ACAGCCCGN AAGCAGCAAG CCAATTTCCA TTAATTACCG 180
AACAGAAATT GACAAACCAT CCCAGATGCA AGTGACCGNT GTTCAGGGNA GCAGCATTAG 240
TGTCAGTGG CTGCCTTCAA GTTCCCCTGT TACTGGTTAC AGNGTANCCN NCGCTCCCN 300
20 AANTGGGCCA GGAN 314

SEQ ID NO:5501

SEQUENCE LENGTH:312

25 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06542

SEQUENCE DESCRIPTION:

30 GATCTGGGTT TAGAGTGTGT ATGATTAATA AATATACCTT TCCTCTTTTC AGGGAAAATA 60
ACAACCACCC NTACTGATAG TTGGGAAAAG AAGATTGGGT TATTTNCCA TATCATTTAG 120
CTGGAAGTGA CATTTAAAG CACCCTGCAT CACTAGTAAT AGTGTATTN NCTATTCTGC 180
CCTTGTAAAT GGTGTCCCTG TAAAACANTC CCCACAGATT ACTTTCAGAA ATAGATGTAT 240
TTCTCTNCGT AAGGGCCAGG TTTATTTCTT CCTTTTTTGN GATNNNNGGN GGAAANTGCT 300
35 GCTTGCACAT TN 312

SEQ ID NO:5502

SEQUENCE LENGTH:217

40 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06544

SEQUENCE DESCRIPTION:

45 GATCATCCTG TAAACATTTT ATCATGTATT AATCATCCCT GCCTGTGTCT ATTATTATAT 60
TCANATCTCT ACGCTGGAAA CTTTCTGCCT CAATGTTTAC TGTGCCITTN NTTNGCTAG 120
TATGTGTTGT TGAAAAA AAAACATTCTCT GCCTGNGTTT TAATTTTGGT CCAANGTTAT 180
TTNAATCTNG TACAATTAA AGCTTTTGCC TATCAAA 217

SEQ ID NO:5503

50 SEQUENCE LENGTH:334

55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06545

5 SEQUENCE DESCRIPTION:

GATCAGGTTG AATGAATGGA ACTCTTCCTG TCTGGCCTCC AAAGCAGCCT AGAAGCTGAG 60
GGGCTGTNTT TGAGGGGACC TCCACCCTGG GGAAGTCCGA GGGGCTGGGC NAAGGGTTTC 120
TGACGCCAG CCTGGAGCAG GGGGGCCCTG GCCACCCCTT GTTGCTCACA CATTGTCTGG 180
CAGCCTGTGT CCACANTATT CGTCAGTCCT CGACAGGGAG CCTGGGCTCC GTCCTGCTTT 240
10 AGGGAGGCTC TGGNAGGAGG TCCTCTCCCN NATCCCTCCA TCTTGGGGCT CCNCCAACCT 300
NTGCACAGCT CTGCGGGNGC TGAGATATNA ATTN 334

SEQ ID NO:5504

15 SEQUENCE LENGTH:87

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06546

20 SEQUENCE DESCRIPTION:

GATCTTTTAA AGGTTTTNAC CATTITGTNA TGAGGAATTA TACATGTATC ACATTCACTA 60
TATTAAAATT GCACTTTTAT TTTNAAA 87

SEQ ID NO:5505

25 SEQUENCE LENGTH:323

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06547

30 SEQUENCE DESCRIPTION:

GATCCATCCC ATGATTTGTN CCTGTCTGAG GCATAGAGGC AGGCAAGCCG TGGATTTTNC 60
ACATGGTGAC TTTCCCACTG TGCCATGATA CAGTGTGCAT CTTATAGCAG TGCCTTTNTG 120
TCAGGGTCTC TGCTGGCAGT CTAGACCTTT TGGGCAGAAA GGAGCTTCAA ATGGCTGTGA 180
TAAGGAATAT TAAAAATNGT GTTTCTACTT TAATTGTATT GGCTGTTTAT GTATGTAGGA 240
35 GTTAAAAATAG GCCAAACTGG AGAAATAAGC GCATTCTGTC CACCANAAAN GTGGNTTGGN 300
TGGTNNNTGT NNGNTTNGGN GGN 323

SEQ ID NO:5506

40 SEQUENCE LENGTH:90

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06548

45 SEQUENCE DESCRIPTION:

GATCAAGTTG CCATGAAAAA CCATCTACTA TATGTNAGAC ATGACATTCT NTTTCTCTCC 60
TTCCTGAAAA ATAAAGTGTG GGAAGAGAAA 90

SEQ ID NO:5507

50 SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear

CLONE:HUMGS06549

SEQUENCE DESCRIPTION:

5 GATCTTACTT TCTTGCTGCT TTTCCTCACTA TAATCATTTT GCTCTTGCTT TAACAAAAGN 60
 NGNGGCACAG NAATTTAGTA AATTGTGTGA ATAACATTTA AA 102

SEQ ID NO:5508

SEQUENCE LENGTH:64

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06550

SEQUENCE DESCRIPTION:

15 GATCTCACCA CTGCACTATA GCCTGGGCGA CAGAGCAAGA CTCCCCTCC AAAAAANGGA 60
 GAAA 64

SEQ ID NO:5509

SEQUENCE LENGTH:360

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06551

SEQUENCE DESCRIPTION:

25 GATCCACAAA TCGCTAGGAA TGTGTATACT CTGGGTAGTA AGTTTGTAAGT ATTAGAAGGT 60
 TTAATGACAA GTATTTGAAG AGCTGAAAGT AAGTGTGGG AGGCCATCCC TTATGAAGGA 120
 CAATGAATGG CAAGTAAAAG ACCAAGTTCT GTTCCTGGGT CCATTAAATT AGTTAAAANG 180
 GCAAAGTTCT TTCAGCACAC ATATCTGCAT GCAGTCACGT GCTGCCTAAG GNTGCTTCAT 240
 TCAACANTGA GCCTCACAGC CGTGCTACAC ANTAGGATAN TACTGTATTT TTNCTGTACC 300
 30 TTTTAACATT GTGTTACAAT GGCCTACAAG AGGCTTGTGT GGNTGGCTTT NNNTGTGGGN 360

SEQ ID NO:5510

SEQUENCE LENGTH:357

35 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06552

SEQUENCE DESCRIPTION:

40 GATCATCCTC ATTAGCACAC AGATTTTNA AATCAATTC TCTNGCCATG CCTCCTATGT 60
 GTTCACATCT CTGCATACAC TACAGATATA AGTGATAAT CATTATATA NACATCTGGT 120
 AGGTATTCTG TAAAACTGTG TTTACTTTAG TGCATGTNAT TGTATGTNA TGATGTGACT 180
 GGGGTGTTTC TTTGTGCATG AAACCTTGCT TCTNCACAGA NTTAGATTAC TGCTCTCTCT 240
 ATATNGANCT NCATATACAG CGTTTTCTTG TTATCAGCCC CCCNAAGTCT GGGATGCCCG 300
 45 GTGGTTGGTG NTGACATGTG AGTGGTGNCC TGGGNGGTCT GNTNCACATA GGGGCNN 357

SEQ ID NO:5511

SEQUENCE LENGTH:138

50 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

55

CLONE:HUMGS06553

SEQUENCE DESCRIPTION:

GATCTTTTCA GCTGCTATTT TGGAAATAATG ACTATCATAT ATCATAACAG TGACTGATGT 60
 TGGTTGTAAT GGTGGGTTT AGGATGAACC ATTTTAAGGA TGCCAAATNA AATATTAGTA 120
 TTTGTACACA GTAAGAAA 138

SEQ ID NO:5512

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06555

SEQUENCE DESCRIPTION:

GATCCCAGCA GGGNTTCTGC TCTGGGGCTG GCAGGTTGCC TGGTATTATG CCCAAGGNCG 60
 NTCTGCCTGG GGGAAAGGGC AGCCAGGCAG AGGCCAGTG TCTAGTAGGC NGCTGAATTT 120
 CCTGGAAGGG GTGATTGGTT GGAAAGNNGN CAGNAACCCC AGCCTNN 167

SEQ ID NO:5513

SEQUENCE LENGTH:159

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06556

SEQUENCE DESCRIPTION:

GATCCCTTGG AGCACCTTNA TGCCTGGGGT TTCTCTCCCT AAAGCTTCTT GCAGTCTAAG 60
 CCTTATCCCT TATGTNCCCC ATTAAAGGAA TTCAAAGA CATGGAGAAA NTGGGAAGG 120
 TTTGTNCTGA CTGCTGGNNG CAGAATAGCC GTGGNAGGN 159

SEQ ID NO:5514

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06557

SEQUENCE DESCRIPTION:

GATCTGGACA AATGGCAAAT AATTTGGGGT TGAATTATGG CCCAGAGAAG TAAGCAAATG 60
 NAAAACTAAA CANTTATAAA TGTATCTGGG AAGCAAAGGT ATTCATANTA NGTCCCATGG 120
 CCAGCTGCGA GCAGTATTTA ACTAGACATG CTGTTGTCAA TANNNNN 167

SEQ ID NO:5515

SEQUENCE LENGTH:97

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06558

SEQUENCE DESCRIPTION:

GATCGTCCCC CTTTNTGGGC TGGAAAAGCA GGTGAGGNTG GGGTGGGCTG AGGCCATTNC 60
 CGCCACTATC TGTTAATAA AATCCGTGAG CACGAAA 97

SEQ ID NO:5516

SEQUENCE LENGTH:225

SEQUENCE TYPE:nucleic acid

5 TOPOLOGY:linear

CLONE:HUMGS06559

SEQUENCE DESCRIPTION:

10 GATCCTCCGG AAGTAGTCTC TNCCTCGGC AGCGGAAATA CTGATTCCCA CTGCTCCTNC 60
 CTCTAGGGTG CAGTGTCCGT ACCTNCTGGA GCTGGNCCCT CCTTCCCAN CCCAGACATT 120
 GAGAACTTG GGAAGAAGAG AGAAACCTNA AGCTCCCAA CAGCACGTTG CGGGAAGAG 180
 GAAGNGAGAG TNTGAGTNTG TGTGTGNTT TTTCTATTG ANCAN 225

SEQ ID NO:5517

15 SEQUENCE LENGTH:340

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06560

SEQUENCE DESCRIPTION:

20 GATCATTAAAT AAAGCTTTTC TTGGTTCCTT CAGTGGTGT GGTAGTAAAA TGGAAGGNGT 60
 CTTGTGTCAG GTAACATAATG AAGANGTGGT CAACCACAGA GTCTTCAAGA AATAAGAAAT 120
 TCTGTACCAN CTGAAAGTAG TGCTTGTGGG TGCCTTCNTT TAAAAAGCAC TCTTTTAAAT 180
 AAAAGGGAAA TGTCTTCTGA TAAACCAAAC ATTTAGTTGA GGTCTTGAT ATAAAACATT 240
 25 TACAANNTGA GTGTTGTNTG TAAAGCAGTA GCCNTCATT TTGGCTAGNG AGNTAAATGN 300
 GTCANGTTTT ANCTAGGTTT TNGTGAGTNG NCAGGTTTNN 340

SEQ ID NO:5518

30 SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06561

SEQUENCE DESCRIPTION:

35 GATCAAAGCC AGTNTTAAAT GGGAGACCGA GCGAGCGCGG CAAGTGCTGG AACACCTGCT 60
 GAAGGAAGGG TTGGCGTGGC TGGACTTACA GGCCCCAGGG GAGGCCCACT ACTGGCTGCC 120
 AGCTCTCTTC ACTGACCTCT ACTCCCAGGA GATTACAGCT GAGGAGGCCA GAGAAGCCCT 180
 CCCCTGACTG CATGTGGAAG GGCACACAGC AGCAGGCAGG GAGGAGGCCG AGGTGGCAAA 240
 TAAACCTGGG CAATTTTGT TATACAAAAA ATAGAAGAAA AGTTCCAAGT TTTTCTTTCT 300
 40 TCCCTCATT TTTTNTTTT GAAAAAAGAN 330

SEQ ID NO:5519

45 SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06563

SEQUENCE DESCRIPTION:

50 GATCTCATGA TGATTCANAC CACAGNCTGG GNTAAAGATG TCTTGACCTC TGAGGCTAGC 60
 ATAACATATA TNAGAATACA NCTTGCTAT TTCCAGAAAA TCTGTATATT N 111

55

SEQ ID NO:5520

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06564

SEQUENCE DESCRIPTION:

GATCAGCTTA CTGAAAAGAA GCCTCCNAG TATTCCAAAT ACAGATTACA TCCAGCTGCT 60
TAGTGAAATT GCCAAGGNAC AAGGNTTTAA TATAACATAT TTGGATATAG NTGAACTGAG 120
CGNCAATGGN 130

SEQ ID NO:5521

SEQUENCE LENGTH:113

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06565

SEQUENCE DESCRIPTION:

GATCNACAA NTGAATATGT GTTACTTAAT AAGGCTAGGC TGGCCATCAG TNGCTTANTT 60
CAGATGTGTC ACTAAATTC CCNTCTAGAT GGTCTTGAG CAAAACITAA TAN 113

SEQ ID NO:5522

SEQUENCE LENGTH:271

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06566

SEQUENCE DESCRIPTION:

GATCATCACA GTTTGAGTTT GACCCCAATG CCAGGATGGT GACACACATA TTAAAGAGTA 60
ACAGCTGGTT ACATTGCTAG GCGAGATAGG GGGAGACAG ATATGGGTGT TTTAATAAAA 120
TCTAATAATN ATNCATCTAA TGTATTATGA GCCAAAATGG NTAATTTTTC CTGCATGTTC 180
TGTGNNMTGN GAAGATGAGC CTTGCAGATA TCTGCATGTG TCATGNNGAA TGNTTCTGGA 240
ATNCTTNACT TGCTNTTGA NTTGCACTGG N 271

SEQ ID NO:5523

SEQUENCE LENGTH:126

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06567

SEQUENCE DESCRIPTION:

GATCTCACTT TCCCCTTGTG GGGTAGGAAC CGATGCCAGT GGGAGGGATG TGCCCTGAC 60
CATTACGAC TGTTTTTTTT TTTTTTTTAAAAATGGN GTTNTTGGGN GGGGNAATNC 120
ACANAN 126

SEQ ID NO:5524

SEQUENCE LENGTH:156

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06569

SEQUENCE DESCRIPTION:

5 GATCACGGGA ATGCTGCTGG AGATAGACAA CTCTNAGTTG CTGCACATNT TAGAGTCCCC 60
CGAGTCTCTC CGCTCCAAGG TGGATGAAGC TGTAGCAGTT CTACAGGCTC NTCATGCCAA 120
GAAAGAAGCT GCCCAGAAAG TGGGCGCTGT TNNNNN 156

SEQ ID NO:5525

10 SEQUENCE LENGTH:133

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06571

15 SEQUENCE DESCRIPTION:

GATCCTTCTA GACCAAGGAC CCATTGTTAA AAGCATGGAT TCTGCCTGAN TTACTTCCCT 60
TTTGAGAAAT CATATCTCAA ATACATAACC TGGTAATATA ACTGAAAAAA TAAAAGTGAT 120
TGCTCCTTCC AAA 133

20 SEQ ID NO:5526

SEQUENCE LENGTH:156

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25 CLONE:HUMGS06572

SEQUENCE DESCRIPTION:

30 GATCCCTGCT TCATAGATTT GCATCATTCA AGCATATCTT GTAAAAACAAA CACATATTAT 60
GGGACTAGGA AATATTTATC TTTCCAAATT TGCCATAACA GATTAGGTT GCTTNCCTTN 120
CTTTGAAGGA AAGTTTAATT ACATTGCTCT NNNNNN 156

35 SEQ ID NO:5527

SEQUENCE LENGTH:63

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40 CLONE:HUMGS06573

SEQUENCE DESCRIPTION:

GATCCTAGCT GCAGATTGCA TCCCACAATG CGAGAATAAT AAAATAAAAT TNGATATTNG 60
AAA 63

45 SEQ ID NO:5528

SEQUENCE LENGTH:207

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

50 CLONE:HUMGS06574

SEQUENCE DESCRIPTION:

GATCNATGGT GTGACTCAAG CTCNCCTTA CCCAGGGGGG GTAAGGGCAG GCCTCTAGCT 60
ACTTGGAGTT GTCTGTAATA ATCTNGAAAG GCCCAAGGGC CTGTGCCCCAT CCTGACTNAA 120
AGGNATCTCC TTCCCTGTTT CATATCACAT GACAGAGAAA CCTGTTCTCA TGGCATGNAA 180

55

CATCCCTGTN AAGAGAGCGT TGCNNN

207

SEQ ID NO:5529

SEQUENCE LENGTH:190

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06576

SEQUENCE DESCRIPTION:

GATCTTGCAC ATGAAGCTAC AAAACTGGTA AGAAACAAAT GGCACATGTG NTGGGAATGG 60
 AAGTCAACCT TTTTGAATTT TTCAAATGTA AGTCAGTCTG GAAAATCCCA GTAAATTGGT 120
 ATATTGTGTT TGGGTTATTT TTGAAGACCT CTTTAAAAAT TTGCCTAAAA TAAATNCTCG 180
 GTATGCTAAA 190

SEQ ID NO:5530

SEQUENCE LENGTH:341

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06577

SEQUENCE DESCRIPTION:

GATCCGCCGC CAGAAAGGTT ATGCATCATG TGCCACAGCC TCCAAGGTGC CCATCATGGA 60
 ATNTCGTGGG GGCTGTGGGC CNANTGCTGC CAGCCCACCC GCAGCAAGCG NCGGAAATAC 120
 GTCTTCCAGT GCACGGNTGG CTCCTCGTTT GTAGAAGAGG TGGAGAGACA CTTAGAGTGC 180
 GGCTGCCTCG CGTGTTCCTA AGCCCCTGCC CGCCTGCNTG CCACCTCTNG GACTCCAGCT 240
 TGATGGAGTT GGGACAGCCA TGTGGGACCC CCTGGTGATT CAGCATGAAG GANATGAAGC 300
 TGGAGANGAA GGTAAGGAG GAAGAGANTA TTANGTATTT N 341

SEQ ID NO:5531

SEQUENCE LENGTH:144

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06578

SEQUENCE DESCRIPTION:

GATCTNTTCC AACAGTTCTN TGTAACCAA ATGCTATTTT TCANTGCATT TGGACTGCTG 60
 ACCATTAAAA AGCAGCCTAT GATTGCTTCT TTTTGTAAG CAAGCAACCN GCCTCCACTT 120
 TAGCTGTTTT NACTATTNGA TNIN 144

SEQ ID NO:5532

SEQUENCE LENGTH:224

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06579

SEQUENCE DESCRIPTION:

GATCCTAAAA CGAAGAGAAT TTGACTCTC CAGAAAGCTA ATAGCTGGTT CAACTGCAGG 60
 AAAAATTGAA CATTACTAAT TTGAATGGAA AACACATGGT GTGAGTCCAA NGGAGGTGTT 120
 TTCTGAAGA NCTGTCTATT TCCTCAGTCA TTTTAACT CTAGAGTCAC TGATACACAG 180

AATATAATCT TATTTATACC TCAAAANGAN TNANANGGGG NNNN

224

SEQ ID NO:5533

SEQUENCE LENGTH:345

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06580

SEQUENCE DESCRIPTION:

GATCTNCCTC NACACCTNGG GCAAAGTCTA TGCGAAGATG GTTCTTAGC TCTCCATTG 60
 CCATGATTTT CCTCCATTG ATCATGAGGG AGTTTCTCAA ACCAGGAGTT NATATTTATT 120
 TNTNAGAAAA TACACACTTT TCAGGAGAAA CCTGAGCATG ATTTTGGATT CTCCACCTCC 180
 CCCCAGTCTC GGNNTCTGGG ATTCAGCTCA AGGNTTCAGT GTCTTCATTT TTACAAAAGT 240
 TCCCCAAGA AATCAGCAAC CAGCCTCTGT TTCATCTGGG AGCCCCTCCC TNGGNCCCT 300
 GGGTTTGGG GGGTGCTGNC CTACTGGGGG AACAGCGGGG GGTGN 345

SEQ ID NO:5534

SEQUENCE LENGTH:179

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06581

SEQUENCE DESCRIPTION:

GATCATNTTG GAACCAGACA AGAATCCAAA GAAAATAAGA ACACAGACCA CCAGTGCAAA 60
 ACAAGAAAAA GCACCAAGTA AAAAGCCAGT GAAAAGAAGA AAAAGAAGA GAGCTGCCAN 120
 TTAAAGCTAA CAGTTGTATA TCTGTATATA TAACTATTAA AAGGGATATT TATTCCAAA 179

SEQ ID NO:5535

SEQUENCE LENGTH:287

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06582

SEQUENCE DESCRIPTION:

GATCAAAAGTT AAGNTTATAT CCTGTTTGTG GTATCAGATA TTTCTCTGTG TACAATTATA 60
 GGATTGTAAT CTACACTGGA ATTTNAGGC AGTAAGTCAC CACAAAATGT TTTAGATAAG 120
 ACACAATAAA ATTATTATAA ATAAAAGCTT AATGTTTGTG AAAANTCTCT TTTTAGTAT 180
 TTCTTTTTTC ACATGNAAGN NGTGGTGGCT GCTAAANAAA MAGCTACAGT GTTTATTANG 240
 GGTGTTTTTG ATTTNTGTNA NTCTTTGTAA ATTGGTCAGT GCCTGTN 287

SEQ ID NO:5536

SEQUENCE LENGTH:258

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06583

SEQUENCE DESCRIPTION:

GATCCCAGAG GCTCTCCTCA CCTCANCTGA GCTCCTTTAA AAGTAATTCA AGGGACTATG 60
 TCACTCAGCC TCATTNCTG GACCAATCT GGAGGGAGAA CCCCTAAAAC CCCTAAGTAA 120

GGTTGCCCAG GGGGTTGTCC CCAGGTGGGG GGAAGCAGGG GAGAGAAAAT GGTAGCCATT 180
 TTAACATTGT TTTGTATAGT ATTTATTGAT TCAGGAAACA AACACAAAAT TCTGAATAAA 240
 ATGACTTGGA AACTGAAA 258

5

SEQ ID NO:5537

SEQUENCE LENGTH:248

SEQUENCE TYPE:nucleic acid

10

TOPOLOGY:linear

CLONE:HUMGS06584

SEQUENCE DESCRIPTION:

15

GATCGCTTGA GGCCAGTTCA AGACCAGCCT GGCCAACATG GCGAAACCCG TCTCCACTAA 60
 AAATACAAAA CTTAGCCAGG CGTGGTGGCG CGCGCCTGTA ATCCCAGCTA NTCGGGAGGC 120
 TGAGGCAGGN GAATCGCTTG AACCCGGGAG GTGGAGGTTA CAGTGAGCCA AGATTGCACC 180
 ACTGCACTCC GGCCTGGGCA NCATNGCGAG ACTCTGTCTC AGNNAGGAGG GGGGGGTTNN 240
 NNTANTNN 248

20

SEQ ID NO:5538

SEQUENCE LENGTH:198

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06585

25

SEQUENCE DESCRIPTION:

30

GATCCTGAAA GAGGACAAAC TACATTGCCT TTTAGACCTN TGACTCAAGA AGAAGATGAT 60
 GACCAAGGT GATTGTAAAC TTAACATGCC TTNTCCTGAT NTTGAAGGAT TTGTGAAGGG 120
 AAAAAAATTC TNGGCTCTTT GTATATAATA AAATGAGACT ANANGCATT C TNNAAAAAA 180
 AAAAGATTAA NTTTAGAN 198

SEQ ID NO:5539

SEQUENCE LENGTH:188

SEQUENCE TYPE:nucleic acid

35

TOPOLOGY:linear

CLONE:HUMGS06586

SEQUENCE DESCRIPTION:

40

GATCCCCACA CTTACTCTAC CCTCTNGGCA AATTGGCATT CCGGTGGTGG GTTTGTNTC 60
 CTTTAACACA TTAATAAAT NAGTATATAG GATGTGAGGG GAGGGGTGAG ANCAACTAGC 120
 TGTAGCATGT NTAGGCTATA TACTTTACCA NTTGACTTCT TTCCTGTTTT TTTTNAAAA 180
 NAAAAAAN 188

SEQ ID NO:5540

45

SEQUENCE LENGTH:138

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06587

SEQUENCE DESCRIPTION:

50

GATCTGGGTG TGCTCTATGG GGAGTNTCTGA CGTCAAANAG CAAATGTCTA TAAGGGGCC 60

55

TTTTAAATN AACATTTTCC TCATTGAGCA AGCNTGGATT CTCTAATGTA GAAATCAAGC 120
CATCTTNATA ATTNCACN 138

5 SEQ ID NO:5541
SEQUENCE LENGTH:332
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS06588

SEQUENCE DESCRIPTION:

GATCCTCCCA CCTCAGCCTG CTGAGTAGCT GGGTCTACAG GTGCACACCA CCATGCCTGG 60
CTAAAGGCAT GTCTGCATTT ATGCGAGGTG TGTGACCGG GTGGGGAGGG AGCTAGGACT 120
GAGATTGCCC TGTNTAAAT GCACAAAAG GGTTCGCTAA GCAAATTGAT ATTTGAACTA 180
15 AAAGATGGAT TAGGGTGAGA GACTTAGTTT ANTCAGGAAT AGTNGCAGAG NCANCCACAN 240
CAANAANTGN ATTCCTTGN GACAGCCGTT TGTACGTACA GCAGGGNNCT GGTTCACAGN 300
TTTCACGGAG GGNNGNTAGG GTTCTTNTAC TN 332

20 SEQ ID NO:5542
SEQUENCE LENGTH:106
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06590

SEQUENCE DESCRIPTION:

25 GATCAAAATNA TTGACTATT GCTAGACATT TCTATACTCT GTTGTAACAC TGAGGTATCT 60
CATTTGCCCA TGTTAATTTT TTTCTAAATA AATTGACAAA AACAAA 106

30 SEQ ID NO:5543
SEQUENCE LENGTH:268
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06592

SEQUENCE DESCRIPTION:

35 GATCACAGCC TCCAGGGCCC CCCAAATCCC AGGGAAGGAC TTGGGAGAGA ATCATGCTGT 60
TGCAINTAGA NCTTCTGCT TTGCACAGGA AAGAGTCACA CAATTAATCA ACATGTATAT 120
TTNCTCTATA CATAGAGCTC TATTTCTCTA CGGTTTATA NAGGCCTTGG GGNTCCAACC 180
AGGCAGTAAG ANGTGCTTCT GAACCGCAAG GGGCGNACGA CTGGAAGTAA AATAGTTTGT 240
40 TTTTCNCANT TCGNGGGNAG GGGNNGGN 268

45 SEQ ID NO:5544
SEQUENCE LENGTH:177
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06593

SEQUENCE DESCRIPTION:

50 GATCCAATTA ACAAATTCTG CACTGTGGCA ACTNAACGAN ATTATGCTTT GGACAGCTTT 60
ATGTGTGAAT GTAAGAACAT ATTCTNAAGA AATGCTGTAA CTTTATCCCA TATANCTTCA 120

55

TANGAATTTC TCTATAGGCT TGGNATTTGC AATAAAAATA GAGGATATGT TGGCAAA 177

SEQ ID NO:5545

SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06594

SEQUENCE DESCRIPTION:

GATCANACAG CCTACANCCA GCCCGAGTG TGCATCANGG TAAAAGAGCT GAGGGCTCTC 60
TNCAGGGAGC AGCCCATTTA GGTCTCTGTN GTTGTGTGTA GGGAN 105

SEQ ID NO:5546

SEQUENCE LENGTH:149

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06595

SEQUENCE DESCRIPTION:

GATCATATNA GACGAGNAAG AGGAAGACCT AAAAGTGCAT CTGCCAAAAA ACATGAGGAA 60
GAAAGTGAGA AACAGGAAAA GGAAATTNAC ATCTATGCTA ACCTGTCTGA TGAAAAGNCT 120
TTCGTGTTTT CAGTCGCCCTT NGCAGCNNN 149

SEQ ID NO:5547

SEQUENCE LENGTH:411

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06596

SEQUENCE DESCRIPTION:

GATCAGTGTG AGTCCTGAAG CACTTTNAGN GCTGTGNAA CGACATCCAC TTTGGGTTTC 60
ATTCGTTTGT AAGCAGAGGA GCTGTCAGTC ACTCGTGCTT GTCGGTGGCC TCTGAGCCAT 120
GGTGTGAGT GAAGAGTAGT TCTTGTGTTT TACAACCTTT GTGAGTCAGC CATGCCCCGA 180
AAGCGTGCTG TGTTTTAGTC CTGGTAGGAA TATTTATNAG AGTTCACACT ATGTAAAACC 240
CAACNGCTTC ANCTATTGCC CTTTCAACAG TTTTGCCACT GACCGGATAG AACCGGTTTC 300
AGTCTCTGGA TGGGTGTGTT TGGTGGGTTT GTAACCATG ACGGGTTTAA ANCCATGGGT 360
TTNAAGATTT GGCCCAAATA ACCAGNAATT TTGTTCCGGG GAGGGGGTTN N 411

SEQ ID NO:5548

SEQUENCE LENGTH:79

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06597

SEQUENCE DESCRIPTION:

GATCATAAAA GGCTATTATC TATNCTGGGG AACGATTATA ACTTAAATAA TTATTTTAAT 60
AAAAATACTA AGCTNNAAA 79

SEQ ID NO:5549

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06599

SEQUENCE DESCRIPTION:

GATCATCCTG CAAGTGCTCT NGTGCCTAGG ATTCACTTT CTTTCACCG TAGGCCCTGA 60
CTGGCATTNT ATTAGCAAAC TCATCACTAG TCGTNGTNC NN 102

SEQ ID NO:5550

SEQUENCE LENGTH:166

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06600

SEQUENCE DESCRIPTION:

GATCAAAACG ACGAAGAAAN GNCNCANAGA CTCAAATAAG GACAGAGTGA TTTCCAATAA 60
TGTTCAATAG ATTTAGGAGC AGAAATGCAA GGGGCTGCAT GACCTACCAG GACAGANCTT 120
TCCCAATTA CAGGGTGACT CACAGCCGCA TTGGTGACTC ACNNNN 166

SEQ ID NO:5551

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06601

SEQUENCE DESCRIPTION:

GATCTCAGTT TCAAATCTCC CCAAGCTGCC TAAATTGAAA AAGCTTGAAC TCAGTGAAAA 60
TAGATTCTTT GGAGGTCTGG ACATGTAGC TGA AAAACTT CCAAATCTCN NACATCTAAN 120
CTTAAGTGGA AATAANCTGA AAGATATCAG CACCTTGGA CTTTGAAAA AGTTAGANTG 180
TCTGANAAGC CTGGNCCTCT TTANNTGTGA GGTNCCAN 219

SEQ ID NO:5552

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06602

SEQUENCE DESCRIPTION:

GATCTCTTNG CGACAGTACC AAGCACGGTT CTCTACACAG GTGACTNAAG TTGCCTCTGT 60
GTTGGCTGGC ATCCCTGAGT CCCCTNCGG CTCCTATGGA NCNN 104

SEQ ID NO:5553

SEQUENCE LENGTH:94

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06603

SEQUENCE DESCRIPTION:

GATCATCTGA GCCTCAGGAG GTTGAGGCTG NAGTGAGCTG TGACTNCGCC ACTGNACTCC 60

AGTCTGGGAC AACAGAGCAA GACCCNGTCT TAAA

94

SEQ ID NO:5554

SEQUENCE LENGTH:78

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06604

SEQUENCE DESCRIPTION:

GATCTCCAGC TGCACAGGCC ACCGNCCTAG GGCCTGGCCG CTGTTACAGA AACAATAAAC 60
CCTGATGGGC ATGGCAAA 78

SEQ ID NO:5555

SEQUENCE LENGTH:191

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06605

SEQUENCE DESCRIPTION:

GATCGTAACA ATGCCAAGAA GACACAAGAA TATGAGAAAG GAATTCCTAG AAAAAAGGCA 60
AAGGTTTCAA TGAATAAGCT AATTTTNCCT AAGTCTACTG ATAACATACT CCTACCCCA 120
TCCTCCATTA ATAAAAGANT GGTGTGTGTA TTGTATTATG AGGGAATTA AAGTGTGATA 180
NGANANNNNN N 191

SEQ ID NO:5556

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06606

SEQUENCE DESCRIPTION:

GATCGGAGAA TTGTGTAGGC GAATAGGAAA TATCATTGCG GCTTGATGTG GGGAGGGGTG 60
TTTAAGGGGT TGGCTAGGGT ATAATTGTCT GGGTCGCCTA AA 102

SEQ ID NO:5557

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06607

SEQUENCE DESCRIPTION:

GATCTCACTT CTGTCAGATG CTCCCATCCA CTATNAATGC ACTAGGTGGG AGGAGAGGGC 60
GGCAATGACA CTGCACCTCT CCTTTCCAC CGCATTCCCT GGAGCTCCCT AAATAAACT 120
TTTTTTAACG TGAAG 135

SEQ ID NO:5558

SEQUENCE LENGTH:182

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06608

SEQUENCE DESCRIPTION:

5 GATCAAGTAA AAATGCAAAT CAATGATGCA AAGAAAACAG AAAAGAAAAA GAAGAAAAGA 60
 CAGGATATTT CTGTTTATAA ATTAAGCTG TAATATATTT NNANTATAAT GTAAATATTA 120
 ATGTGTAAGC TTATATTGTG TCATTGTNCT GTTTTATAAT AAAATNCTTG AGAACCTTCA 180
 AA 182

SEQ ID NO:5559

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06609

15 SEQUENCE DESCRIPTION:

GATCTTGACC TCACGGTGTA AGAAGGGAGA GGATGGTTTC TCTTCTGCCC TCTCCCATGG 60
 TGCCCGTGCC TCTNTGCTGT GTATGTGAAC CACCCACGTG AGGGAATAAA CCTGGCACTA 120
 GGAAA 125

20 SEQ ID NO:5560

SEQUENCE LENGTH:195

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06610

25 SEQUENCE DESCRIPTION:

30 GATCTTTTGA GATACAATCC TTATTTAAAA AGGAGAAGAT AACTGAGGAT TTAAAAAGA 60
 AGCCATGGAA AAACCTTCCTA GTAAGCATCT ACTTCAGGCC AACAAGGTTA TATGAATATA 120
 TAGTGATAG AAGCGATTGA AGTTACAATG TTTTATGGCC TAAATTTATT AAATAAAATG 180
 CACAAAACCTT TGAAA 195

35 SEQ ID NO:5561

SEQUENCE LENGTH:131

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06611

40 SEQUENCE DESCRIPTION:

GATCTTGTGC TCAACATGAT NCNTTAATAG AAGTTTTATN TTTCTGTGCA CTCTGCTAAT 60
 CATGTGGGTG AGCCAGTGGA ACACGGGGAG ACCTGTGCTA GTTTTACAGA TTTCTCCTA 120
 AATNCGCGG N 131

45 SEQ ID NO:5562

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06612

50 SEQUENCE DESCRIPTION:

GATCTAATAG CTGAACTGAT TCAAACCTGA ATAAGCTCAT CAATTCANT TCTATGAAAA 60

55

TGTGCTCTGT TGTACAGGA TGTTCCTGTT GGTITNTTC ATTCTCTGGG AATTGGTAAA 120
 CATCATGTTT CNGATGATAA CCCAGTAGCA AAANCATTG TNCTGTGTGG TACAAGCCTT 180
 NGGGACTGNN AAANAN 196

SEQ ID NO:5563

SEQUENCE LENGTH:307

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06613

SEQUENCE DESCRIPTION:

GATCCCATAA TATAATCAT ATCCTTTATA TTNAGAATA TCTCAAATGT ATTCTTTTT 60
 TGTATGGTGG GTTTCCTAG GGACGTGTAA CTACAGGCTT TTAAGGCC AAGGAAAAAG 120
 AGAATTTNC TTTTCATCTT ACAAATCCA GATATCTACA AANGNTGTGA AAGCACTAAA 180
 AGNGNNGNTT TTAAGCAGTA CTTTACCTGT TTTCCITTA GCAAACCAGG TTATGTGGTG 240
 TAAAGGTTTG TNATACGTGC CACAATATAG CATATAAATG TTATGCCATC ATTCTTCTC 300
 TTGTTAN 307

SEQ ID NO:5564

SEQUENCE LENGTH:188

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06614

SEQUENCE DESCRIPTION:

GATCTATACA TGAACAGCAG AATGTATAAG CTAGCATTTA CTAGCATGTC TCTNATACTT 60
 TTGTNCAATT CTGTTAATCG TCATTCTGT CCCCTCTGCA TGGAAITNA TACTTGTCTA 120
 GGGTAAGAGT TTGTAGACTC TTTACGAGA ACAGATTTTA ATAACCAATT TATNTGTTTT 180
 ATTTTAAA 188

SEQ ID NO:5565

SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06615

SEQUENCE DESCRIPTION:

GATCAGCACA TCCAAAAACA CCAAGACAAA CATCCATGTG GAGCAGAACC TNTCCTGCCT 60
 CGGGAGTTCT GACCAGGTTT CCCAGCAGGG TGTTAAGCCT CTGTNTCTGG CCCTACCAGC 120
 ATNCGGGTTC CACTTTTCCT AGGAGAGNGT GGAGATGGGN NGACAGGGAA AGGNNGGN 178

SEQ ID NO:5566

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06616

SEQUENCE DESCRIPTION:

GATCTATCAT TTTAATTGAT TCTGAAGCTT GTATTAAAA CTAGGCAATA NCATCATGGG 60

ATACATAGGA GANGGCACAT TTTACAATCA TNCATTNTGG CCNN

104

SEQ ID NO:5567

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06617

SEQUENCE DESCRIPTION:

GATCTGCTGA CAAAACCTGG GAATTGGGT TGTGTATGCG AATNTTCAG TGCCTCAAC 60
 AAATNTGTAT TTAACCTATG TAAAAGATAA GTCTGGAAAT AAATGTCTGT TTATTTTGT 120
 ACTATTAAAA 130

SEQ ID NO:5568

SEQUENCE LENGTH:80

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06618

SEQUENCE DESCRIPTION:

GATCATTTAA CATTCTGTGT ATGTAACAAA ATATCACATG CATAAATATT ATGTATCAAT 60
 AAAATTTTTT AATGGGCAAA 80

SEQ ID NO:5569

SEQUENCE LENGTH:58

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06619

SEQUENCE DESCRIPTION:

GATCCGGTCA CTGCACTCCA GCCTNGGAGA CTACAGCAAG ACTCTNTCTC CAGTAAA 58

SEQ ID NO:5570

SEQUENCE LENGTH:188

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06620

SEQUENCE DESCRIPTION:

GATCTGAGGG GTGGTGCCTA CTTCCACTGT AAGAAAGAAT CTNGGTGGAT TTGTGINTCA 60
 AATCANGATA AGAGAAAGCCT GTTAAAGGA GCAGATGCCA TCTNCTGNCT TCCTCAAGGA 120
 GCCAGTTAAA AAACCAAGAGC ATTCCTTTTN ATTGAAAAAT AAAATTAGTT TGTATCAAA 180
 ANNNGGTN 188

SEQ ID NO:5571

SEQUENCE LENGTH:240

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06621

SEQUENCE DESCRIPTION:

GATCATAAAC CGTTGCGGGA CAGAAGTTAG ATATGTGATT GATTATNATG ATGGTGGTGA 60
 AGTCAACAAG GACTACCAGT TCACCATCCT GGACGTCCGT CCTGCCCTAG ATTCACTTTC 120
 GGCAGTATGG GACAGAATGA AAGTCGCTTG GTGGCGTTGG ACCTCGTAAA GCACTGTTTC 180
 AGATGGAAAA NTATAANCTA TTTTNTCTG AGCGATACAT TAACTATTT TCCCAGAAA 240

SEQ ID NO:5572

SEQUENCE LENGTH:197

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06623

SEQUENCE DESCRIPTION:

GATCCTCATC TTCCCAAAT ACTCGTTCCC AAAATTGACG AGCCTGACAA TGTGCATGCC 60
 AGGCAAGGCT CTTGGGGTTC CCCTAAAACA CTTCTCTTT TAAGCCTACC ACTCACTCAT 120
 CATGAATATA GTCCATTGTC CCAGGGTGTA AAACCTCTA TAGTGTTAAA TAAAAGANTG 180
 ATTGGGGAAC ATTGAAA 197

SEQ ID NO:5573

SEQUENCE LENGTH:109

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06624

SEQUENCE DESCRIPTION:

GATCTGGCTC AGTCTACTAT GGGCAGGGCC CCCACCAAG CTGAGCCGAA TGGAGACAGC 60
 TGAGCTGAGG CTTGACTTTT TCAATAAAAC ATTGTGTAGT TCTGGGAAA 109

SEQ ID NO:5574

SEQUENCE LENGTH:333

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06625

SEQUENCE DESCRIPTION:

GATCTGAGCT GATGACTTGT GAGAGAAAAA GGAACAGAG TAAAGCCATG GAAGCCATGA 60
 ACAGTAAGAG ACTGCCGCCT GGCATGGTTT CTTCTTCTGC AGAAGATGAA ACTGAGGAGA 120
 AACAAGACAA CATCCTTCAT ACCAGGAATG GTCAAGATAA TGCAAGAAGA GNGNAGCTTT 180
 CAAACAANTC AGNAGGCAGT CAACAAACAG NAAGGGGGNC ATTCTTCCC TGGCAGTTAC 240
 TCATANCTGA AATTGCTTAT TGTGTACACC GGGGCTTGTA CTTGGGGNAT TTAATANNAT 300
 TGCTCATINC CAAGCTCCNA ANNNAANTTA ITN 333

SEQ ID NO:5575

SEQUENCE LENGTH:132

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06626

SEQUENCE DESCRIPTION:

GATCGATTGC AGTCAGAGCC TGAAAGTATC CGTAAATGGA GAGAAGAACA AATGGAACGC 60
 TTGGAAGCCC TTGATGCCAA TNNTNGGAAG CAAGANGCAG AGTGGAAGA AAAGGCAATA 120
 NNGGAGCTAG AN 132

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SEQ ID NO:5576
 SEQUENCE LENGTH:272
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06627

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SEQUENCE DESCRIPTION:
 GATCTTGGCT TCTNACAGTT CTNCCTGTCC AAACCTCCATC CTGTCCCTCA GGAACGGGGG 60
 GAAAATTCTC CGAATGTTTT TGGTTTTTTG GCTGCTTGA ATTTACTTCT GCCACCTGCT 120
 GGTCACTACT GTCCTACTA AGTGGATTCT GGCTCCCCCG TACCTNATGG CTCAAACTAC 180
 CACTCCTAAG TCGCTATATT AAGGCTTATA TTTTGNTGGA TTAGTGCTAA ATACAAAAAT 240
 NTTTGANAGG GANNGGNGNG TNGGNGTGT NN 272

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SEQ ID NO:5577
 SEQUENCE LENGTH:133
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06628

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SEQUENCE DESCRIPTION:
 GATCATCTG TCTGGCTGCA GTGAGAGACC AACCCCTAAC AAGGGCTGGG CCACAGCAGG 60
 GAGTGCAGCC CTACCTTCTT CCCTTGGCAG CTGGAGAAAT CTGGTTTCAA TATAACTCAT 120
 TTAATAATTT AAA 133

25

SEQ ID NO:5578
 SEQUENCE LENGTH:186
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06630

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SEQUENCE DESCRIPTION:
 GATCCACAAA CTNCCTGACA CTACTNNCAT ATTTCCACTA AAGGAGATTC AGCTACAAAA 60
 GGAGGCCAGC CNTCGGTCTT CGTCGATGCC TGA CTGAGGC ANGCCAGCTT TCCGCGTGGT 120
 GGACACCGAG TTCTAAGCCA CAGACCGAGG CCCGAGCAGN CAGCGGCTGG AGGGNTGCCA 180
 CACNN 186

35

SEQ ID NO:5579
 SEQUENCE LENGTH:136
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06631

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SEQUENCE DESCRIPTION:
 GATCCACTGC CTCGGCTCC GAAAACTGG AATNATAGAT GTGAGCCACT GCGCCAGGCC 60
 TGTAAATTTA TGTATCTTTA TGTGATTATT TGAATGTCCC TCTCTGACTA GATTATAAAT 120

50

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TCTAAGGATA GTGAAA

136

SEQ ID NO:5580

SEQUENCE LENGTH:66

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06632

SEQUENCE DESCRIPTION:

GATCCCCGTT CTCAAGTGTC NCNGGGAACA TAAACNGAGA TAACATGAAA AAACCTTGACA 60
CAGAAA 66

SEQ ID NO:5581

SEQUENCE LENGTH:122

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06633

SEQUENCE DESCRIPTION:

GATCCTTNA GGCAGCTGCC TTATCTTATT CCTTNTTGTA TTTCCATACC TAGCCTAATA 60
CCTAGCTTAT ATAAGGGAAC AGAATAAATA AACAATAAAG AAAAGTCTTT ACAGCCTCTA 120
AA 122

SEQ ID NO:5582

SEQUENCE LENGTH:262

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06634

SEQUENCE DESCRIPTION:

GATCCAGGGC CGTTCATGAA CCACTGGGCT GGATTNGACT GTTGAGTGTG GCAGTTAATG 60
CCCCCAANA AATCAAAGGA TGTCTTATAA GTGTCTTCCA AAAAAAGCA AATGCTGAAA 120
TCCTATTGGC AAAGTAACT GAAATTGGCT GCTATATTN ATATAATCAT TTCTGCAANT 180
CCCANITNTT GNATACTNAT GTNGGACATG GTTANTTCTT ATTAATTTGT TGGAAATTGTT 240
TATTGTTAGN AGTGCANATN GN 262

SEQ ID NO:5583

SEQUENCE LENGTH:275

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06635

SEQUENCE DESCRIPTION:

GATCCTGGCC AGTACAAAGT CGTTGCTCTT GTTTTATCTT CTCTTACAGA GTCTCCCTCC 60
CTTTATAGAA TGTCAACCAA AGAGTGCCCT CCTCCCTCT CAGCCTCCTN TNNAGCTAGC 120
CTCCCCATCT CATCACAACG CATGTCTGTG ACCTTTGGTA ATCATTTACA GTGCCACACG 180
GAACCCTGTA TTTTGCACAC AGCAAAACAA ACAATGTTA GCTTTATTTA TGGTATTTGA 240
TGCTGTAAAT GGAAATAAAT ATTGTTCTTT ATAAA 275

SEQ ID NO:5584

SEQUENCE LENGTH:170

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06636

SEQUENCE DESCRIPTION:

GATCTCTCTC GCCACGGCAC CGTCAGCTCC TTTGTGGCCA AGCTTTTCAT CTTTGTGTCT 60
GCAGAGCTCT GAGCACTCGC TTCGCGTCGC GGGGTCTCCC TCCTGTTGCT TTCCTAACCC 120
TGCCCTCCGG GGCCTTAATA AAGTCTTAGC AAGCGTCCCA CACAGTGAAG 170

SEQ ID NO:5585

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06637

SEQUENCE DESCRIPTION:

GATCAGCTTT NAGAGTGGTC CTAAGCAGTA AACTGGATGA TGTTCATTAA GAAAAACATC 60
AATACTTCAT ATTAAAGTNT NAGTAGTTAC TACTGATTNG ATAATCACTT AANTN 115

SEQ ID NO:5586

SEQUENCE LENGTH:254

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06638

SEQUENCE DESCRIPTION:

GATCCTTGTG GACTGCCACT GCTGGCTGCC TCCTCTCCAA CTCATCAGAA GAGCATTITG 60
ACAAAGACAG AGGACTTGGA CCAGGGCATG CCCTGTTGGG GATGTTTCTG TCAGCAAGGA 120
CATGGCATGG AATCAAGTGG GCTGATGTGT TGTATTATA ACAGTACCAA AGTGCACTCT 180
TCAATGTATG TTTGCCCTGCT TGAAGCAAGG CCCAAGTTGA GAATACAGTA AAGGNAACTC 240
ATGAAAGTGA GAAA 254

SEQ ID NO:5587

SEQUENCE LENGTH:301

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06639

SEQUENCE DESCRIPTION:

GATCCCGCCC TGACCCAGAG GAAGCCTCTA TTTATTTATT AGCTTTTGTG TACACCGTGG 60
AATTGACCCC TTCCTCCAGG GGTCTTGGGT GGGGGAGCCC AGGGCCCTG TGACCCCTCC 120
TTTCTTCCTC CAATCCCCAG TTTGTATTTA GCTGCCAAAT AAGATTCCCA TTGGNTCCCT 180
GTGTTCTCTT GGGGGGTCAG GGTGCTGTCC CCTNCNNTCT GTTACATCT CCCCTNTACC 240
CCGCTGTATC GCATATTGNW GAGTTTNTA TTTTTCGAAA ATAAAGTGAT GGAAACTCAA 300
A 301

SEQ ID NO:5588

SEQUENCE LENGTH:206

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06640

SEQUENCE DESCRIPTION:

GATCAGAGAA AATACGGTAC ATGTCCCAT GGAGGATATG GCTTGGNCTT GGAACGATTC 60
TTAACGTGGA TTCTGAATAG GTATCACATC CGANACGTGT GCTTATACCC TCGATTGTC 120
CAGCGTTGCA CGCCATAACC ATTTTCTCCA GAAGCGTGGA GGAAAGATTA TNNAAGGANC 180
AGGCTCTTCA AAAAAANNAN GNNAAN 206

SEQ ID NO:5589

SEQUENCE LENGTH:84

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06641

SEQUENCE DESCRIPTION:

GATCTTCTTC ACACCAAGCT CATGGTTACA TNCCGTGAGG TGTCATGAAG AAAGTNCCTG 60
TCAATAAGGT TTTGTAATGT TAAA 84

SEQ ID NO:5590

SEQUENCE LENGTH:150

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06642

SEQUENCE DESCRIPTION:

GATCTGTGGC TGGAATNGAG GGAGCGCCTG CTTCTTCTCC AGCTTGAAA AACAAATAGGA 60
GAAGGGTCAG CTCGCGCGGG GCATCATCCC TACCAGATTG AGTGTITTC ACGCACITCA 120
ATCACAAAAT AAAACAGTGA GAAAGTCAAA 150

SEQ ID NO:5591

SEQUENCE LENGTH:123

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06643

SEQUENCE DESCRIPTION:

GATCATCATA TCAAGATGAT ACCAAAAGTA TGTA AAAAGA AACCTGCATT ATTTTGTAAT 60
NATTTCTTAT AGATATTCA TGGTAAGATT AGCAGTCAAT AAAGTTACTT TTTTNCCTTT 120
AAA 123

SEQ ID NO:5592

SEQUENCE LENGTH:170

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06645

SEQUENCE DESCRIPTION:

GATCCTGCAA ATATCTTCTT TCCAGTTTGN TATTGTCAIT TGNCTTTTGA CTTTGTCTG 60
GTATTTTTTG NTATGTAGAA ATNTTATTT TCATGTAAGC AAATTATGA ATCTTTGNAC 120
ACCATAAGTA TATACAATTA TGATTGTCA ATTAATAATA TTAGTACAAA 170

SEQ ID NO:5593

SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06646

SEQUENCE DESCRIPTION:

GATCATCCGG TGAAGAACC AGTCCCTGNG CCCCAAGGAT GCCGGGGAAA CAGGACCNTC 60
TCCTTCTCTG GAGCTGGTTT AGCTGGATAT NGGNGGNTTT N 101

SEQ ID NO:5594

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06647

SEQUENCE DESCRIPTION:

GATCTCCGTG GGAACATTTT CGTTGCTGTC GGTGCTGGCA GGAGCCTGTT TCTTCTGGT 60
CCTGAAATAT AGAGGCCTGA TAAATACTG GTTTCACACT CAAA 104

SEQ ID NO:5595

SEQUENCE LENGTH:91

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06649

SEQUENCE DESCRIPTION:

GATCGTGCTG CACAACCGGA GAAGACAGAA TTACCTCTGC TCTTTAATA TATAATGATG 60
GCTTTAAATA AANTTAGGAG AAAATGTCAA A 91

SEQ ID NO:5596

SEQUENCE LENGTH:126

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06650

SEQUENCE DESCRIPTION:

GATCCAGAGA GTGGGGGTGA GGGGTGGGCC CTGAAGACTT TTTGTCTGTA GCTCTTGCAT 60
ATTGAGTGTA TAAACCCGGC TTCTGGACCA ACCCAAGATG AATAAACTGG GGCAGAAAAAT 120
TACAAA 126

SEQ ID NO:5597

SEQUENCE LENGTH:393

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

EP 0 679 716 A1

CLONE:HUMGS06651

SEQUENCE DESCRIPTION:

5 GATCCTGGTG GCCACCAATN TGT TTGGCCG GGGGATGGAC ATTGAGCGAG TCAACATCGT 60
 CTTTAACTAC GACATGCCTG AGGACTCGGA CACCTACCTG CACCNNGTGG CCCGTGCGGG 120
 TCGCTTTGGC ACCAAAGGCC TAGCCATCAC TTTGTGTCT GACGNGAATA ATGCCAAAAT 180
 CCTCAATAAC GNCCAGGACC GGT TTGAAGT TAATGTGGCA GAACTTCCAG AGGAAATNGA 240
 CATNTCCACA TACATCGAGC AGAGCCGGTA ANCACCACGT GCCAGAGCCG GNCCANCCTG 300
 10 AGNCGACCGT ATTGTAGCTT TTAACNCCC TTNCCAGGC GACCATTTTT TNGAAAGTT 360
 NGAGGTTTGT TTNNTGGNT TTAAC TTN 393

SEQ ID NO:5598

SEQUENCE LENGTH:69

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06652

SEQUENCE DESCRIPTION:

20 GATCAGAAGG CTCTGGNCAA GAGAATGAAA ATNAGGATGA GGAATAATAA ACTCTTTTGG 60
 GCAAGCAAA 69

SEQ ID NO:5599

SEQUENCE LENGTH:85

25 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06653

SEQUENCE DESCRIPTION:

30 GATCTCTTTG TCCCTGAGGT GTCAGCTGCC AACAAGAAGC ATTAGAACAA ACCATGCTGG 60
 GTTAATAAAT TGCCTCATTG GTAAA 85

SEQ ID NO:5600

SEQUENCE LENGTH:149

35 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06654

SEQUENCE DESCRIPTION:

40 GATCTTGGAG TCGTGGAAC TGTGCCCCAC CGGGTCCTGC GCCGTCAGCA CAAGCCACGC 60
 TTCACCACCA AGAGGCCCAA CACCTTCTTC TAGGTGCAGG GCCCTCGTCC GGGTGTGCCC 120
 CAAATAAACT CAGGAACGCC CCGGTGAAA 149

SEQ ID NO:5601

SEQUENCE LENGTH:120

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06656

SEQUENCE DESCRIPTION:

50 GATCGATGTG CTCAGCCAAA TNCCTGTTT GAAATATCAT GTTAAATTAG AATGAATTAA 60

55

TCTTTACCAA AAACCATGTT GCGTTCAAAG AGGTGAACAT TAAATATAG AGACAGGAAA 120

SEQ ID NO:5602

SEQUENCE LENGTH:162

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06659

SEQUENCE DESCRIPTION:

GATCAAAACC AAAAAAATG NACCAAAGGC TTGGGTGGTG AGGGTGCTTA TCCTTTCTGT 60
TATTTTGTAG ATGAAAAAAC TTTCTGGGGA CCTCTTGAAT TACATGCTGT AACATATGAA 120
GTGATGTGGT TTCTATTAAA AAAATAACAC ATCCATCGGA AA 162

SEQ ID NO:5603

SEQUENCE LENGTH:56

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06660

SEQUENCE DESCRIPTION:

GATCCTGTTT TGAATAAAC ATATTTTGCC TTGAGTAAAT TTGTTGTAAG CTAAAA 56

SEQ ID NO:5604

SEQUENCE LENGTH:90

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06661

SEQUENCE DESCRIPTION:

GATCCTTCTT GTATCTTGAA GTTTTGTACT TGGGATTCTT GGACTGATAA ATGAATCATC 60
ACATTCTTCT GGTAAATATT TTCTTGAAAA 90

SEQ ID NO:5605

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06662

SEQUENCE DESCRIPTION:

GATCTGAAGA AGATGATGAA GTTGTGGCAA TNATTAAGGA ATTGTTAGAT ACTAGAATAC 60
GGCCAACTGT GCAGGAAGAT GGAGGGGATG TAATCTACAA AGGCTTTGAA GATGGCATT 120
TACAGCTGNA ACTCCAGGGT TCTTGTAACA GCTGCCCTAG TTCANTCATT ACTCTGAAAA 180
ATGGGAATNC NGNGCATGCT GCAGTNTTAT ATNCCGNNN 219

SEQ ID NO:5606

SEQUENCE LENGTH:289

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06664

SEQUENCE DESCRIPTION:

GATCAACTGA ACCAGTATGC CAAAACCAGG CATCCAATTT GTAAACCAAT TATGATAAAG 60
 GACAAAATAA GCTGTTTGCC ACCTCAAAAC TTTATGAACT TCACCACCAC TAGTGTCTGT 120
 CCATGGAGTT AGAGGGGACA TCACTTAGAA GTTCTTATAG AAAGGACACA AGTTTGTTTC 180
 CTGGCTTTAC CTTGGGAAAA TGCTAGCAAC ATTATAGAAA TTTTGCCTTG TTGCCTTATC 240
 TTCTTCCAAA TGTACTGTTA AATAAAAATA AAGGGTTACC CCATGCAAA 289

SEQ ID NO:5607

SEQUENCE LENGTH:216

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06666

SEQUENCE DESCRIPTION:

GATCTGGAGC ATTTGAANCA AGTTTATAGA AGANCATGCC AAAAACTAA GCAGGACCAA 60
 GGAAGAGCTT TNAAGGCCTG AGGTCTGCGG AAGGTGGGAG GAGGCAGACG CCCTGCNTGG 120
 CCCATGTCG GGGCGTCCAC GGCAGGGCCG GCAACAAACG GCAGTATCTN GNATTCCTTT 180
 TTTNTTTTTT NAAATTTTAA ATNCTTTGGT NITTCN 216

SEQ ID NO:5608

SEQUENCE LENGTH:350

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06667

SEQUENCE DESCRIPTION:

GATCAGAATT ATAACCATGG AGAATTTTTT CTTCTGAGCA TTTTAATATA CTTGAAAACA 60
 ACATTGACTT GAAAAATTTT AGAACATTTT TCAGTACCTA GTTTTATTAA ATATTACACT 120
 TGAGAGACAC TTTTAAAAA TGTGTTAATG TCAATATGAT GAGATTTTAG CCTTCTCCA 180
 GAACTAAGGC ATTAAGAAAA ATAGCAAATA TTAATAAATA AAAGTGTAC TTTTTCCTT 240
 CTTTCTTTTC ACCTTTAGGT TAATATCCAG TATTATGTTT TATCCCNTTG GATAAGTATG 300
 CTTTATTTTA CCTCNGTTAA AAATTAATAA AAATGATTTT TATTCATAAA 350

SEQ ID NO:5609

SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06668

SEQUENCE DESCRIPTION:

GATCCTNAAG AGAGCTGTCC CAGCACTCTG GCCACCAGGA GGGCCANATT CCCCANAAAC 60
 TACCTNTTGC CCAAAGAACA TNCTCAGTAT TTGGGGCATT TCCTN 105

SEQ ID NO:5610

SEQUENCE LENGTH:265

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06669

SEQUENCE DESCRIPTION:

GATCCCAGTG TCTGAGTGAA CTAACAGTCC TGCTTTCAGC CACCATTGTG ACAAGACACC 60
 CAGCACTGAA AGTCCCGCTG CCAGGAGCAA GGGATTCTTT GGAAGCACCC GCCCTTTGTG 120
 CCTTGTTGGG GGAAACCGGT GACGCAGTAG TGAGTGTGGA TACACCAGAG TTTGCATTGG 180
 AAGGAATGAG TGTACCGTGG GGAGGGAAGG GGCCAGTGGA CCTTTGTAA GCTTCCACT 240
 CAATAAAATG AACCTGTATG GCAAA 265

SEQ ID NO:5611

SEQUENCE LENGTH:138

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06670

SEQUENCE DESCRIPTION:

GATCCATGTT GAACAATACA TGTAGGTTCT TTTCCACGC AATGTAAGAN CATGATATAC 60
 TGTACGTTGG AAAGCATTGA CCTTATTAT ATACCTGAAT GTTCCTACTA CACAAATAAA 120
 CATATATTAA ATTCTAAA 138

SEQ ID NO:5612

SEQUENCE LENGTH:160

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06672

SEQUENCE DESCRIPTION:

GATCTGTGAT GCCCCACCGC CACCCTACT CCCTTCAACC CTCCTCTTT CTGCCCATT 60
 CCTCCCACCC CCTCACTCCC ATTTCTAGC AAAATCAGAA GATTGTGAAG AGGCCGGCTT 120
 CAACAAAATN GGATAAANAN ATAATTTTT AAAACTTAAA 160

SEQ ID NO:5613

SEQUENCE LENGTH:217

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06673

SEQUENCE DESCRIPTION:

GATCCTATGT NCTGCTTGCA CAGAGGCCCTT TGGATTTTAA CCCAGGAGNT TCGNGAGNTG 60
 AGAGCTGCCC TGTCTTINAT TGAGCCTTAG CATTCCCTC TCAGGCTTCC TCTCAAGCTC 120
 AAGGAACTCA CCCCAGATA AGAAGCTGGT GCCTCTTGTC TCTCTNATTT CAGAAACGGA 180
 CTTTCTNATC ATGCTTTCCT ATGGTGGGTA TGNGNNN 217

SEQ ID NO:5614

SEQUENCE LENGTH:109

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06674

SEQUENCE DESCRIPTION:

GATCCAGAA TTCAACCTGT ATTTATAGAT GGATAATGTA NTTAGCTAAT TTTTGGTTTA 60

AATGANCTTN TTGGGTTAGC TTNCGTAAAT GNTATAATTT TTA CTGTTN

109

SEQ ID NO:5615

SEQUENCE LENGTH:267

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06675

SEQUENCE DESCRIPTION:

GATCCCCAGC TGGACTCCCC ACCCCCTGGC TTCCCCACCT CTCCAGGNGT CAAAGGTGAA 60
 CCGAGTCCAG TATTAGCTGA ATGTCATTTC GTACACCACA GCTCAGTCAG CCCATGGGCT 120
 TCGTGAAC TTGCTCCAACA CACTGATGTG TGGGCTTCCC ACAGCAGGAC TGACTTCCCC 180
 CTTTCTGTTG TTGTCACATN CCCCTCTTAC TGTACTGTCA ATAGATATTT TTGAGATTTA 240
 TTTTAAATA AATATTCAAC TTGCAAA 267

SEQ ID NO:5616

SEQUENCE LENGTH:61

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06676

SEQUENCE DESCRIPTION:

GATCAATAAT ATATAAAATN TGAGTGTGGG TTTGTATCTA ATAAAGTATG CCAACACCAA 60
 A 61

SEQ ID NO:5617

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06677

SEQUENCE DESCRIPTION:

GATCTTGAGG CCCAACATGC TTGACTCTGC CCAAAAGTCT CCTTCTCAG CAGGATGCAG 60
 CCTATTACAC TCAGCACAGN ATCTGGCACT CTTAGGTTCC CGGTCCATT CAAACCTCCT 120
 GCAACCAACA AAAGGATAGT TCCTTAATAA TTTGTCAAGC CTACCTAGGG CACTGCTAGT 180
 AGTCTTACCA TTATTCACAA ATAGGGCTGA AACATCTAAA ATTACCCAC TTAGTATTTT 240
 ATATCCCTTC AACGTTCTAT CCTAAAGCTA ATGTTTCTTA GTGCTAATTA NAATCGTCAG 300
 TCTATTGACA NTNTGACAAA GGGTAAGAAA 330

SEQ ID NO:5618

SEQUENCE LENGTH:84

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06678

SEQUENCE DESCRIPTION:

GATCCCAGGN TTCTGCGGAC CGACGATACG TTTAAATGTT GTTCTAGTAA ATATTCTTGA 60
 ATGTATTAAA ATGGCTGAAA CAAA 84

SEQ ID NO:5619
 SEQUENCE LENGTH:244
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06679
 SEQUENCE DESCRIPTION:
 GATCGTGTTTCTNTAGATGAA ACCATCAAGA ACCCCCCGCTC GACTGTGGAT GCTCCCACAG 60
 CAGCAGGCCG GGGCCGTGGT CGTGGCCGCC CCCACTGAGA GGCACCCAC CCATCACATG 120
 GCTGGCTGGC TGCTGGGTGC ACTTACCCTC CTTGGCTTGG TTACTTCATT TTACAAGGAA 180
 GGGGTAGTAA TTGGCCCACT CTNTTCTTAC TGGAGGCTAT TTAAATAAAA TGTAAGACTT 240
 CAAA 244

SEQ ID NO:5620
 SEQUENCE LENGTH:102
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06680
 SEQUENCE DESCRIPTION:
 GATCTTCATT AGTCAAGNTT TAGTTATTN GTTGGCTTTT CCATGTAGAT TTCCAAGTGA 60
 CATTAAACATA CTTNATTAAGAAAAATTG GAGACTGTTN NN 102

SEQ ID NO:5621
 SEQUENCE LENGTH:71
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06681
 SEQUENCE DESCRIPTION:
 GATCGGGCCC CATGCTGTG CTGTCTAGTT TGTGTTCAAA ATGTCAGAAT AAACACAGAA 60
 TAAATGTAA A 71

SEQ ID NO:5622
 SEQUENCE LENGTH:269
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06682
 SEQUENCE DESCRIPTION:
 GATCTTTTAA AAAAGTTAAA GGACATCCTA GAGCCTTAAT AGTTAAGAAG NGTTAAATTA 60
 TCAAGCCTAT TTGTGCATT CCTTTNTTG AAAAAGGTAA GTTGCTGATT AAGTCTAATT 120
 GGAATTGATA ATTCCATAGT CTTAGATTAN NNTGAGGATA TTTCTCCTA GATTCCTCA 180
 TGTNATGCCA TGCATTTATA TATCTNACCA TTAATTTAC ACTAAGGATG CTTACCATA 240
 TAATAANNNGG TGCANGNTGG AAGCAANN 269

SEQ ID NO:5623
 SEQUENCE LENGTH:375
 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06683

SEQUENCE DESCRIPTION:

5 GATCTCCTTT TCCAGTGCTG CACACTCCTG GTTGGGAACT TTAATGGCGT TGCACGGAA 60
 TCCTATATNC AGTTTCCTGT AATTAAATTG AAGAAAAATG CATCCAAATN AAGACTTTAT 120
 TATTAACNGA CCAGATNGCA TCAGAAATCA TGTGTCTGTT ATNATTATCA GAATATGTCT 180
 TAACTTTTTN GGGCAAAGTT AACACTGAAA GTTCTAGCTT AAGTGTGAN ACTTTTGTGG 240
 10 GGNAAAAAAN TCACTTTTGA AACTCAGACT TCAGNGTATA CCCANTAATT TAANGTTCNT 300
 GTGAAATGGT TTAATGTGT NGGACTCGTA ATGACTGTTT TANTGGTCC AGTTTCTNCA 360
 GNGTGGGTAN TTGGN 375

SEQ ID NO:5624

15 SEQUENCE LENGTH:54

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06684

SEQUENCE DESCRIPTION:

20 GATCTGATAA CTTGAATTCA GAATATTAAG AAAATGAAGT AACTNATTTT CAAA 54

SEQ ID NO:5625

SEQUENCE LENGTH:182

25 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06685

SEQUENCE DESCRIPTION:

30 GATCTGTTTT TATAAAGTGC TCCATGATTC TCTGAAAACA GTATACTATG TATCTAATTT 60
 TTGGATACAG GATGGACATA CGTACTCAAA CTGTGTTTTT CAATTTGTAC TGTATTTGTT 120
 TCTCTCGACC TGACTIONG ATAGAGGTAT ATTAAGTNT TCCACTAGCA TGGTAGATTA 180
 AA 182

35 SEQ ID NO:5626

SEQUENCE LENGTH:367

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06686

SEQUENCE DESCRIPTION:

40 GATCCTATGG NTTTTCCCGG CTGGTTGCCA CTACTIONGAC ACATTGAGTG CCCACATCCA 60
 TCTNTGCCAT TAAGCTTTTT TGAGACATGA GAGATGCCTC TNCCTGCTG TATGACATGC 120
 ATTTGGGAAG TTGGAAGAA ATGACAAANT CAGGGAGAAA ACATCCAAGC TTCTTACCTG 180
 45 TAGATAGANT CAGCCCTCAN TTGGTGCTTA TNACCAGTTA TTCANGAACA ATAACANCA 240
 CAAANTTAGT AGACATCCAA GAGGCACATA TTAGGGCCAA AGATAGCATC ANCTGTNTTT 300
 GAGGGANCTG TAGTTTTGCG CATTITNATG NCATTTTTAT AAAGGTACTG TNATTNTTTC 360
 ATTGANN 367

50 SEQ ID NO:5627

55

SEQUENCE LENGTH:336

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06687

SEQUENCE DESCRIPTION:

GATCTAGTTT GACTTTCTAG TTAGTGGTGT TTTGAAGAGG GTATTTTATT GTTTTTTAAA 60
 AAAAGGTTCT TAAACATTAT TTGAAATAGT TAATATAAAT NCATAATTNC NTTTCCCCTG 120
 TTTATTGTAA TGTATTCTAA ATTAATGCAG AACCATATGG AAAATTTCAT TAAAATCTAT 180
 CCCCCAATGT NCTTTCTGTA TCCTNCCTTC TACCTATNAT CCTGATTTTC AAAAATGCAG 240
 TTAATGTACC ATTTNANNTG CTTGATGAAG GGAGCTCTAT TGCCNTTANC AGNAATTGTN 300
 GCTAAGGTAA TTCCNAATAG AAAGCTGCTT ATNNNN 336

SEQ ID NO:5628

SEQUENCE LENGTH:364

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06688

SEQUENCE DESCRIPTION:

GATCTTCTTG ACCTTCTCCA TCATCGCCAT CCTTTCCCAA AGGCCAAGGA AGTGACCTGC 60
 CTGCTGGCAT TGGCCAGACC ACAGCAGCAC CTCCTCCATG CAGGCCTTAA CTTTCCCATG 120
 GTCAATGCAG TTTTATCAG CCTTGCTTTG GATAGGACCT CCAAGGACTA AGGCCTCCAG 180
 CCCCATGTNT GACCCTTGTN ATCTCTCTGC CCCACATAAT TCTGTACTT TGCTATGTGC 240
 TCCTAATGTA TCTAGTGTGT CCTGTGACAA CACTCATCAN ACTTCAGTGN AAATCACTTG 300
 GTTTTAATTG ACTGTNTTNT CCTATAGACT GTAAGGNTCC ATGAGGGCAG GGCACATGTT 360
 GGTN 364

SEQ ID NO:5629

SEQUENCE LENGTH:347

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06689

SEQUENCE DESCRIPTION:

GATCCCCTGT GCCACCAGGA GGGAGTGGCA GCTATAGTCT GGCACCAAAG TCCAGGACAC 60
 CCAGTGGGGT GGAGTCGGAG CCACTGGTCC TGCTGCTGGC TGCCCTCTCTG CTCACCTTG 120
 TGACCCAGGG TGGGGACAGG GGCTGGCCCA GGGCTGCAAT GCAGCATGTT GCCCTGGCAC 180
 CTGTGGCCAG TACTCGGGAC AGACTAAGGG CGCTTGTCCTC ATCCTGGACT TTTCTCTCA 240
 TGTCTTTGCT GCAGAACTGA AGAGACTAGG CGCTGGGGCT CAGTTTCCCT CTTAAGCTAA 300
 GACTGATGTC AGAGGCCCCA TGGCGAGGCC CCTTTGGGCC ACTTACN 347

SEQ ID NO:5630

SEQUENCE LENGTH:318

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06690

SEQUENCE DESCRIPTION:

5 GATCAAGGTG TGAATAACTG AAGAAAAATAA CTTGCTGGCT ATATAGGAAA ATGCTGTGGA 60
 AATGAAGTGT GTATATACTT CTGGGAGGAA CAAATTTAAT CATTCTCCT GTTAAGCACT 120
 AATCAGTATA GTGCAACTCC TGGTTCTGTN CTGTATTNA TATGCAACAT ATATGCTTTA 180
 ATATTNNNT GTTTGTNCAT TAATATTNC AATTGTGTTA ACCACTTTGC TGCTAAGATT 240
 TTNCCGTCCC ATTCCCATTT NTCCCTTTAC AATNNTAAAC ANGTTTCTTC ATTAAANNCT 300
 ATGGTGATGA AAAANAAN 318

10 SEQ ID NO:5631
 SEQUENCE LENGTH:185
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06691
 15 SEQUENCE DESCRIPTION:
 GATCTGTGGG TGTTTTTAAA AAAACTCAAC CTATCTGGTG TTTTATTTTA ATGGATAAAA 60
 ATGTAATTTT CCTAAGGTAG CAACTTATT CCAAATTAAT ATAGATGANA AATAGATNCC 120
 ANTTNGACTA AATTGAAAGC TTTNNTCCT ATATTNCAAT AGCCTTTGAG AATATTGNTN 180
 AGTGN 185

20 SEQ ID NO:5632
 SEQUENCE LENGTH:130
 SEQUENCE TYPE:nucleic acid
 25 TOPOLOGY:linear
 CLONE:HUMGS06692
 SEQUENCE DESCRIPTION:
 GATCAATAA ACTCANTTTT TTATGGTTAC TGTA AAAAGA CTGTNTAAGN CAGCTCAGCA 60
 CCATGCTTCT NGTAAAAGCA GCTTCANTTA TCCACTGGGG TTATCTTTTG ACAACTTGCC 120
 30 ATTATCTGNN 130

35 SEQ ID NO:5633
 SEQUENCE LENGTH:123
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06693
 SEQUENCE DESCRIPTION:
 GATCTTAACA AGCTTAAAAA AGAATTTTAT GACCAGAATC CAACAAGAGC TCTATTTTGG 60
 40 AATTGTGCCC AAGTTGGTGA TGTTACTCT AAAATTAATA ATAAAACTAC TTGTAAGCAC 120
 AAA 123

45 SEQ ID NO:5634
 SEQUENCE LENGTH:235
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06694
 SEQUENCE DESCRIPTION:
 50 GATCTGAACT GCCTCCTCCT TTCTCTGGCC TCTNCCCCT TCCCTCTTCT CTCAGCTAG 60

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EP 0 679 716 A1

GCTAGCTGGT TTGGAGTAGA ATGGCAACTA ATTCTAATTT TAATTTATTA AATATTTGGG 120
GTTTTGGTTT TAAAGCCAGA ATTACGGCTA GCACCTAGCA TTTGAGCAGA GGGACCATT 180
TAGACCAAAA TGTACTGTGA ATGGGTTTTT TTTTAAAAATT AAAAGATTAA ATAAA 235

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SEQ ID NO:5635
SEQUENCE LENGTH:250
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS06696

SEQUENCE DESCRIPTION:

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GATCACGCTA CTGCACTCCA GTCTGGGCAA CAGAGCAAAA TCCTATCTCA AAAAATATAT 60
ATATATTATC CAGCCCCAAA TGTTTATGGG GTTGTTATTG ATGAACCCTG CATTAAACAA 120
TCCCACAGTC GGTGCTGCGG TGAGCCGTGA TGGGTACCAC TNCATTCCAG CCTGGGTGAC 180
AGANTGAGAC CCTGTCTNNA AAAAAAANGT NNAANTTGT TCCCNATAT TTTGGNNGGA 240
TTNGTGGGGN 250

20

SEQ ID NO:5636
SEQUENCE LENGTH:131
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS06697

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SEQUENCE DESCRIPTION:

GATCTTGTGT ATTTTGTCC ATATCCAATG TTATATGAAC TAATTGTATT GTTTTATACT 60
GTGACCACAA ATATTATGCA ATGCACCATT TGTTTTTAT TTCATTAAAG GAAGTTTAAT 120
TTAAATTGAA A 131

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SEQ ID NO:5637
SEQUENCE LENGTH:58
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

35

CLONE:HUMGS06698

SEQUENCE DESCRIPTION:

GATCTTAATG GGCAGGGTTA AGAAAGTTAT TAAAAATAAA GTTACCTATT CTAATAAA 58

40

SEQ ID NO:5638
SEQUENCE LENGTH:250
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS06699

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SEQUENCE DESCRIPTION:

GATCAGAGTG ATGTGTTATG CAGAGAATTA AAGGGTGATG TGATAAAGTG ATTGGGTCGT 60
GCTTTATGTT GGCACAAAAA ATCTGGAGTA TAAGAAAGTTG CTGACTTGGG TGATTGGGAA 120
GAGATTGGGA GACTGGGGGG ATTCAGANCT GAAGGANCAG GCTATAGGCT GTAAGGCAAA 180
ANTATACTTG CNATGTTCAA ATTACTNAGA GGNTTNTACC NNCNTGCTTT TCTTTAAAAA 240
ATAAACNTTN 250

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SEQ ID NO:5639

SEQUENCE LENGTH:354

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06700

SEQUENCE DESCRIPTION:

GATCTTGTTA TTGATTAACC ATTTTCTTAT GCCTTGCTAT TGACATATTC ATGCTCTTTC 60
TACGTCTAGT GGCTGAAAAT NTTGCATTT GTTCATTGA CTAATGGTGT GATTTTNGTT 120
TCTATATTAT NAGACCTGTA ATGTTTTAAA ATGTATTNA TTAATTGG ACTGGATGTA 180
TGCTCTAGC AATACGAGGT ACTTTCTAAA CTATTAAGGG AGGGGTTGTA TCCTCATGTT 240
GAGATAAGAT GATGGTCGTT TAANTTTNGC AATTTTTTTT GGCCTGCAGG GATATTTTGT 300
GTTTATGTGT CCAAAANNGG ANTAANTTGG CATTCTTG TG CCAAANGTTG TTNN 354

SEQ ID NO:5640

SEQUENCE LENGTH:342

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06701

SEQUENCE DESCRIPTION:

GATCTGCATT CTGTAAAAAGA GGTACTTTCC CATGATGTAG GCATGAAGTG GTGCCAGTAA 60
GCGTAGAGCG GAAATNTTGA CTTAGTTAA CATTGGGTNT AGCATTTC CA GTGCAGCATT 120
ATCAGTGGGC CTTTAAAAAT ACTTCGTAAG TACATTAGCT TTCACTTTGT NGTNAATTA 180
TAGCAGACTC ATTATAGAGA ACAAGTTTGC CTTGATTNN TTTAAATGA CTTCTGCTAA 240
GCACCCAGAA GATAAANTTG ACATATTTT NTAATNTAAG CATACTTTT TNGTACATNG 300
TGTNCATTCT TGANTAANAT GNGGTTCTGT GTTGGCTTGT NN 342

SEQ ID NO:5641

SEQUENCE LENGTH:272

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06702

SEQUENCE DESCRIPTION:

GATCCAGTAT AATTNCAGAT TCTNGTGTCC CATCGAAGTT TCTAGCAAGA GGA CTGTTGT 60
CACATTTCT TCTTGGACTC ATTACTGGTC ACTGAAAACC AGAAGAAGTT GGTGAACCAT 120
CTAAAGAAGA GAAGGCTGTG GNCAAGTATC TNCGATTCAA CTNTCCAACA AAGTCCACCA 180
ATATGATGGG GTCACCGGNT TGATTATTT TTTGCTTCAA AAGCAGTGGN CTGTTTTNG 240
GGATTCAAAG NGGGNAAAGT CCANGTANTG GN 272

SEQ ID NO:5642

SEQUENCE LENGTH:264

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06703

SEQUENCE DESCRIPTION:

GATCGCAATG AATTTNTAAA ATTACTATTT AANATATTGT TGAGATTCCA TTACCTCCAA 60
 TCAGTCTTGG GACATTAGAA CAGTGGTATA ATTAAGACTG TATGTTTAAA TTGAGAAATT 120
 TTGCACAACT TTAACAAGTA GCAGANCTAA TTGTNCACTG ATGGCTTTAA AGATGAAATA 180
 NTTCTGTGAA TNCATGANAC TGTGAGGGNC TCTNCGTGGT TGTCTAGGTT TATTTATATG 240
 CATNCTCATT AATNAAAGTN NTTN 264

SEQ ID NO:5643

SEQUENCE LENGTH:247

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06704

SEQUENCE DESCRIPTION:

GATCTTTTTT ATTTTATAC ACATGACAAG ATTTTACATC AAGAATAGTC AGTTAAATAG 60
 TACAAATTTA CATTATGAG GAATGTTAAA AAAAATTCAA CTA AAAAACCC CACTTTTTCC 120
 TGTGACCCAT AATCCACAT TTTACAGTGC AGGGGAGAAG GGGATTAGGG GGCATNCAAA 180
 ACAAGTCTCT CCCAAAAAGA AAAATGCAGG CATGCAGGGN CGGCGTAATC ANTNCCNGN 240
 NNNNNNN 247

SEQ ID NO:5644

SEQUENCE LENGTH:318

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06705

SEQUENCE DESCRIPTION:

GATCCATACA GGTGTGTGT CATCTGTCCT CTTGAGGTTT AGGAGATTCT AAATTGAATA 60
 TTCCACGGTT TGGGACAGCA TNCGGAAGTT TTCCCTATNA CTTTATATTT TGTATTATGT 120
 CAAATGTTAT GGCAGGGCCC AAATAGCATA GCCACAAGTT TGGTTTATGT GGGCATAAAA 180
 TTCTAACCAA ACCCCAGACA TAGGGAGTCA TTTGGAGAAA GCCTGTATGT GGTGTTTTAA 240
 CCTAATAAAG TTGATGAGAG AGAAGGGGAG AGGAAGCGAA CATAAAGCGG GTCAAGTGTA 300
 GTGCATCTTT TGTATTGN 318

SEQ ID NO:5645

SEQUENCE LENGTH:197

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06706

SEQUENCE DESCRIPTION:

GATCTTTTGA CATACTCACT TTGAGTGGCA TATGCCCAGG AAAATATTTA AAAGAAAGAA 60
 AAGCTATTTT TACAAAGTTT TCTAGCAGTT CCACTCAGAT AACTTTAAGG GGGAAAAAAG 120
 CCCAACGNTT GGNNATGGTT AAGTAAATTT NGGTGTATTG CTAGTGCTAT CNCNGANTGT 180
 GTATGATGGC CNTNCAN 197

SEQ ID NO:5646

SEQUENCE LENGTH:210

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06707

SEQUENCE DESCRIPTION:

5 GATCCCCCGA ATAACCTTTT TCAATCAAGT TGAAAAACCA AACAGCTATG TAAAGTCCCC 60
 AGGAGAGCTC TTTTCCCTT ATTNCTCAT TTNTTTGTT ATAACTGTT TAAATAGTTC 120
 AAATGGTTGT NCATGCCTAG GGGATGAAAC CTATGTAATA GAAATGTACT GTTTATGAA 180
 TAAGGAGTAA AATTNTTTA AAAAATTTAA 210

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SEQ ID NO:5647

SEQUENCE LENGTH:372

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06709

SEQUENCE DESCRIPTION:

20 GATCTGAAAC AGAAACCACC CTCCGGAACC GCCCAAGAAA GGNCTGCTCC ANANACTCTT 60
 CAAGCGGCAG CATCAGAACA ATTCAGAG TCGCCAGC TCCAAGACCA GTTTTAACCA 120
 CCACATAAAC TCAAACCATG TCAGCTCGAA CTCCACCGGA AGCAGCTAGT TTCGGCTCTG 180
 GCCTCAAAGT CCACAGTGGA ACCAGCCCAG ACCCTTCTCC TTAGAGTGG AAGTAGTGGA 240
 GCCCTGCTC TGGTGGGGCT GCCAGGGGAG ACCCCGGGAG CCGGGGAAGG AAGGCCGTCC 300
 ATCCCGTCGA CGTAGAACCT CGNGGTTTT TCAAAGNAAT TTCCACTNNG GTCTGTTTTT 360
 NCGAGGGGGG NN 372

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SEQ ID NO:5648

SEQUENCE LENGTH:228

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06710

SEQUENCE DESCRIPTION:

35 GATCCTTGGT ACCCCTAAAA AGATTGCCAA TTTTITCAT CTTTGCCATA TGGAGGACTG 60
 TGACAGACTT TGGACAGTGG CCTCTTGAGT TCCTCTGCAG TTTTGACATT TAGGATTTTG 120
 TGTCTTTTAA ACTGGAAAAT CTTCTAGCAT GTTGGGTTGT TACAGAGTAT ATTTTGTCT 180
 GCAGCTGTTT GTTGCCCAT TCCTAAGAGG AGTTTATCCA TCCNGAAA 228

40 SEQ ID NO:5649

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06711

SEQUENCE DESCRIPTION:

45 GATCAAAACA AGATTTTCCC AGTAAGAATA TACTGGGACA TAACAAATGA AAATATTTAT 60
 ACCAAAATAC CAAAAGTNAT TCACCTCTTT AAAATATCCT ACTATAGTCT AATTAGTAGC 120
 TTGTNCAAGA CCAAGTAACC ATTTTNNCT GCNCTTTTGA NTGATGATTA GAAATTCAAA 180
 CAANGTATTT NNN 193

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SEQ ID NO:5650

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SEQUENCE LENGTH:176

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06712

SEQUENCE DESCRIPTION:

GATCCAAGTG CGGAANTCAC AGAAGGAACG GATTACAATT CTCCTNCAGN TAGGGAACCC 60
 CTAAGNCCAC AGAAGATAAG GAGGAAACAA TACAGAACT AGAGACCCTG GAGAAGAAGG 120
 AAGAAGAAGT AACTTCAGAG GAGGATGAGG AGAAAGAAGA AGAAGNAGAG ANGNNN 176

SEQ ID NO:5651

SEQUENCE LENGTH:273

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06713

SEQUENCE DESCRIPTION:

GATCAAGTTT TAAAAATTGT NCTNTTATTG TTTTAAATTA AGAACTTTTT GAACTAAAAAC 60
 CAGAACTCT GCCATAGTTC ATTGATTITA ACATGAAACA TTTATTTACA AGATGATATC 120
 AAGATTACTT TTCACAAAT AGGCACATTA TATCANCCT TTGCNCTGCT TTGTAAATTT 180
 NCCATCCAGG ATTTTGGGGT GGTATTCATG TGAAATTTAA GCAGATTCTC TAGCAGTTTC 240
 CTATAGCTAC AGTTTNNNN NTNCCCTGG NTN 273

SEQ ID NO:5652

SEQUENCE LENGTH:231

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06714

SEQUENCE DESCRIPTION:

GATCTGTGT GGAGAGGGAA TGTGAAATTA ACATCATTTT TTTTGGGAG AGACTTGTIT 60
 TGGATGCCCC CTAATCCCCT TCTCCCCTGC ACTGTAAAT GTGGGATTAT GGGTCACAGG 120
 AAAAAAGTGG TTTTAAGTT GAATTTTTT TAACATTCCT CATGAATGTA AATTGTNCT 180
 ATTTAACTGA CTATNCTTGA TGTAAANCT TGTCATGTGT ATAAAAATAA A 231

SEQ ID NO:5653

SEQUENCE LENGTH:228

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06715

SEQUENCE DESCRIPTION:

GATCAACATG GTGGAACAAA ATGATAAAGA NCAGAAAACA TTTCAATATA TTAATAATAA 60
 CTTTTTCAA TATAATCCT AAAATTCCTA TAACATAGTA TTTACAGTT TTATGAAGCT 120
 TTCTATTGTG ACTTTTATGG AATTAAGAGA TGAAGAAGAT GAGATATTT AGCATTATA 180
 TTTTCAAAA TTATATGTAT ACTTAANANT AANGTANCTT TATGCAAA 228

SEQ ID NO:5654

SEQUENCE LENGTH:182

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06716

SEQUENCE DESCRIPTION:

GATCACAACT GTGAAAAAA ACTGCACACG CAAAAGACTA CAGGGAAATA TGTAATTNAT 60
TATNTTGT TTCTCTCAGTG ATAAGATGGG GTGGTTTCTT CTTTGTACTT TTGTATTAAT 120
TTCTTACGGT GTTTGTATTA CTTTATAAT CAAGAACTTT GTTTAAAAA ATAAATCAGA 180
AA 182

SEQ ID NO:5655

SEQUENCE LENGTH:93

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06717

SEQUENCE DESCRIPTION:

GATCGTAGCT AGTTTGATT GTCTTGCAA TTGTACAGAC TTTTAAAAA AAACAACCAC 60
CAGTGAAATG TGTGTGTATA CAATAAACTG AAA 93

SEQ ID NO:5656

SEQUENCE LENGTH:331

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06718

SEQUENCE DESCRIPTION:

GATCAACATT TATGACCTAA GTCAGGTAAT ATACCTGGTT TACTTCTTTA GCATTTTNAT 60
GCAGACAGTC TGTTATGCAC TGTGGTTTCA GATGTGCAAT AATTTGTACA ATGGTTTATT 120
CCCAAGTATG CCTTAAGCAG AACAAATGTG TTTTNCATA TAGTTCCTTG CCTTAATAAA 180
TATGTAATAT AAATTTAAGC AAACGTCTAT TTTGTATATT TGTAAGTAC AAAGTAAAAAT 240
GANCATTTTG TGGAGTTTGT ATTTNGCATA CTCAAGGTGA GANTTAAGTN TTANNTAAAC 300
CTATAATATT TNNNCTGANA CNCNNGNACC N 331

SEQ ID NO:5657

SEQUENCE LENGTH:250

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06719

SEQUENCE DESCRIPTION:

GATCAAGCCA AAAAATCCAC CAGGAANTCC TACTGACTCT CTTTNTAAAA TATAGTCATT 60
TAACNGTCAA AAGAGTCCCC AATAATGTCA GTNCTAAGAT TNCCCCTATT TTTTAAAAA 120
ACAAAGTAAA TGAAGACTCA AAGAGCAAGT AACTAGTCTA AATTAGATAG TCACAGGTGG 180
TAAAGCCAGA AATCTGTCTG GNCAGTCTAA CTCTATACAN CCCAGGCTTT TAANTATTAG 240
AAAGCNNNNN 250

SEQ ID NO:5658

SEQUENCE LENGTH:409

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06720

SEQUENCE DESCRIPTION:

GATCTCAGTA TCATACTGAG ACACCTCCCC TGAGCCTTAC CTACTTAAAT TGGTAACCGT 60
 CCTACCAAAA TTTGTCAATT TNAATCAAGT GAGGCAAGTT GCAAGGGAGC CAGAGATACG 120
 TGAATAAAGA AAAGCAGAAA TACTGATACT TTCTAAGAAA GAAGTTGTAA TAATTNCTTT 180
 GGCACATTGA CTTACTGATA TCTTTTGAAA TGCATAGATG ACTCTTGTGA ACCAANGAGA 240
 GCAGTNGTGG TTNTTCCCCG GCGCAATAAA AATGCCCTTG TGTATCACTT GCGGTTGCCA 300
 GTCATTTCTG GTGCCAGTTG CTTTNTNNNN CCAGAGGTTT GGCCTTNATT CTTCCGAAAN 360
 NAGGGTGATG ATTNTTGAA GNTGGGGTTT TCCTNACCAN ATTATTNTN 409

SEQ ID NO:5659

SEQUENCE LENGTH:56

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06721

SEQUENCE DESCRIPTION:

GATCTGGAAG AGTCAAGAGA AGAGAGCAGA AAGCAGGCTC TTGCTGCTAA AAGAAA 56

SEQ ID NO:5660

SEQUENCE LENGTH:69

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06724

SEQUENCE DESCRIPTION:

GATCTAAAGA TGATGAAAA CATCAGCTAC ATTAAATACT CATAAGCAAA ATAAAGGCTG 60
 GCCTGTAAA 69

SEQ ID NO:5661

SEQUENCE LENGTH:208

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06725

SEQUENCE DESCRIPTION:

GATCCAAAGG GAAGGGACTA TGCAAGGGCA TTTATAAAGC NTGGACAAGG GTTCATTATA 60
 GAACACCANT GTNATGGACT ATCCCAAGCA TGTACCACTG TGTCTCATGC ATGGTAAAGG 120
 TCCCATAAAT GTTATTGCTC TCTTGCACTA TAGTAGTAAT AGTAGTGGTA GCTGNTTTAG 180
 GAGTAAAAAC AGCNAAAAAAN AGANNNNN 208

SEQ ID NO:5662

SEQUENCE LENGTH:326

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06726

SEQUENCE DESCRIPTION:

GATCTGAAAA AAAAGTTTCA CCGTTTGTTC TCTTACCTCA TTTTAAGAAG CATGTGAAAA 60
 TGGGATACTA TAGACTACTG AGAATTTTCAG AAATTGAGAA CAATTTTCATA ATAAAAACGGC 120
 TATATTTGAA GAGAGANTAC ATTTTATATA ANCAGGAAAA TACATTTGAC ACTTTATGGA 180
 ATTTNATGAG ACTTTTGTG GGAACAGAAG GTCTTCAAAT TGTAAAATGT AAAGNTTGCN 240
 CTNTTNTTA NGTCTTTAAC AGGGGTGTNT TTCATTGTNT GTTTGGGTA TGGCTTTGGN 300
 ATAANTCATT NTATATNTNA NTTGAN 326

SEQ ID NO:5663

SEQUENCE LENGTH:227

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06727

SEQUENCE DESCRIPTION:

GATCTGCACA GTTTGGTTTT TGCACAAAAG TCATTTAAAA AAATCTGAGT AATTGTCAAA 60
 TATTTAAAAGA AAGNTATTCT TCCTGGTAAG GAATACAGTT TTNAGTCAAA GTGGCCATTA 120
 CATCCNCTTT TNAATTTACA TAATACAGNT ACTTGTGAAA GTTGTGTGG TGTGTATGC 180
 CAAGNNAATN CTTTTTATT GGTGCCTATA TTGTCACANT TNTNTN 227

SEQ ID NO:5664

SEQUENCE LENGTH:324

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06728

SEQUENCE DESCRIPTION:

GATCCACCCT CCTCGGCCTC CCAAAGTGCT GAGGATTACA GGCATGAGCC ACCACAGCTG 60
 GCCCCCTTCT TTTTATGNT TGGTTTTNA GAAGGAATGA AGTNGGAACC AAATNAGGTA 120
 ATTTGGGTA ATCTGTCTCT AAAATNTTAG CTA AAAACAA AGCTCTATGT AAAGTAATAA 180
 AGTATANTTN CCATATAAAT TTCAAAATTC AACTGGCTTT TATGCAAAGA AACAGGTTAG 240
 GGACATCTAG GTTCCAATTC ATTCACATTC TTTGGTTCCN GGTA AAATCN GGNGGNNTAT 300
 ANCAATTTCT ANTTGGGGTT TNCN 324

SEQ ID NO:5665

SEQUENCE LENGTH:149

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06730

SEQUENCE DESCRIPTION:

GATCCTTCCA CTTGGCCTC CCAAAGCATT GGGATTACAG GCGAGAGCAC TTGGTTGGCT 60
 AAAATATTTA TATTTACCTG NCATNATTTG TTGATTGGG GGCTAGGGAG TTCTTAAAC 120
 AACAATAAAA AATCTTCTGT GGCTGCAAA 149

SEQ ID NO:5666

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06731

SEQUENCE DESCRIPTION:

5 GATCACAGTC TTGAGGTCCT CTAGCAGGGG TGAGGGAGAG CAGCGACTTC AGCTGAGTCC 60
 CTGCCAGTGG TTAAGCAAAC AATGGTTTCA AAATTCAAGG TCCCCAAATG GCAGCATTIT 120
 ATGTTCTGAC CTGTTTGTGT TATATAGTGG TGTITTNNNN CCNCTTTGGA NCTCTTGNGT 180
 TGTTAATAAA ATGAAATGAT TACTTTTNAA TTAANTGAA AAANGTAAAA AANAAN 236

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SEQ ID NO:5667

SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06732

SEQUENCE DESCRIPTION:

GATCGCGCCA CTGCACTCCA ACCTGGGTGA CAGACTCTGT CTCCAGAACA AAACAAACAA 60
 ACAAAAAGAT TTTATTAAAG ATATTTTGT TAACTCAGTAA A 101

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SEQ ID NO:5668

SEQUENCE LENGTH:259

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06733

SEQUENCE DESCRIPTION:

GATCCATGGA CCATCTGGGT CATGGCGCCT GGTTCAGAC AACCTGAATC AAATCTTAGG 60
 GGTGGGGCTT TGGGATGTCA TTGTTCAATA GGCACCTCAG GAGATTCTGA GCACACCNNT 120
 GTTTGAGAAC CACTAAATN AGGAGTGGGA AAAAAAAAAAT AGGTGTTTTG TTAATTAGA 180
 30 GCTGAGCTGN GANGNTAATA TATTTTNNTT GTCANTGCCA TTACCAGNTA TGCACTGNTT 240
 CTTTTATACC TACANTTTN 259

35

SEQ ID NO:5669

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06734

SEQUENCE DESCRIPTION:

GATCCTGAAG CTTACTATGC AGCCTACAAA CAGCCTTAGT AATTAAAACA TTTTATACCA 60
 ATAAAAATTT CAAATATTGC TAACTAATGT AGCATTAACT AACGATTGGA AACTACATNN 120
 ACAAATCAA AGCTGTTTGA TACATAGAAA TCAATTACAG CTTTAATTGA AAACATAAAC 180
 CATTTTGATA ATGCAACANT AAAGCATCTT CAGCCAAA 218

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SEQ ID NO:5670

SEQUENCE LENGTH:222

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06735

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SEQUENCE DESCRIPTION:

GATCAGATTG AGGTTATGCA TTTTGGCAA GAAAACCACG GCAATGATAT GCCCGTCTCG 60
 GTGCATTNA TCAGGAGATA CTTGATGTCG ATGTGTCATA TTAAGGTGA TGTAAACCTT 120
 GGTAAAGGT AGTAGCTTTC AGGTTTCTCC ATTGTAAAGT TGCTATTACT TCTTAATATA 180
 ATAGGCTAGG TTGTACTGCT ATAACAAATA TACCTTAGTA AA 222

SEQ ID NO:5671

SEQUENCE LENGTH:86

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06736

SEQUENCE DESCRIPTION:

GATCCTTGAA TGAAGAGGAA CCTCACCAT GGGGCTTACT GTTATAATGT TTCTTCATT 60
 ACTGTTATTA AAAGATTAT GAGAAA 86

SEQ ID NO:5672

SEQUENCE LENGTH:391

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06737

SEQUENCE DESCRIPTION:

GATCAGAAGC TGCCAGGAAC AAGGAGAAGA CGCTCCCTT CCTCACCTC CCACCCAC 60
 ATGGCTTCTC ANTCGGGAA AAGATACAAC TTAACITTA ACCAAGTNT AAGTTTGTAT 120
 TATNACATGG GATTAGATGC ACCAAAAACA ATTTCAAGTG ACTGTGGGC ATTCTATTGC 180
 CTGAGAATGT TCAAGAGTCC TGATATGACC TGTGTNTT ATCCTAAACA GTGAAAAATT 240
 CATCCACCAA ATATATAGGA ATAGAGGGTG ACAGNAAGAT GCTTCTGAA AGGTATCCNA 300
 TATTGGGGG TTTGGGTTA CATATNCTN ATGTNGGNT TTAANCTATA GCTCTTCANT 360
 TANNNTTACT CNATCCATTN CTTGAAAGGA N 391

SEQ ID NO:5673

SEQUENCE LENGTH:210

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06739

SEQUENCE DESCRIPTION:

GATCCTNTGT ACATGAAATG AAAGGTGCAT CANCTTGGG GCTGGGAAAC CTGCAGTATG 60
 GNTTACTNC GTCCCTATCA CTGGTGTGGC TGTTGGGAAA CCACTTATTG CCTGACCTAC 120
 CTCACAGGGA TGTGTGAGG GTTTGATGAG AGAATGAATG TTAATAGGAA TTGGAAAAAT 180
 CAAAGCATT AACACATGTA AACAGGTAAA 210

SEQ ID NO:5674

SEQUENCE LENGTH:223

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06740

SEQUENCE DESCRIPTION:

GATCTCAAGA AAAAGCAGGA ATTAAATAAG ACAAGGNCA GATTAANATA CCTTTCCAG 60
 CAGGGGAAAC AGCAAACTTA AAGGTTCTAA GGCACANGAG AGCATGGCAT ATATGACGAC 120
 CCAAAAGAGT GGCCAGATAT CCAGACATCT AGAAGGTCTA GCTAAGTNCT TAGGAAGTAG 180
 TATAANCAGA NAAGANAAAN TTGTGGCCTC TTTTTNAAA ANN 223

SEQ ID NO:5675

SEQUENCE LENGTH:391

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06742

SEQUENCE DESCRIPTION:

GATCATGCAC TGTGACCAC TGAGCAATCT GTGTNACACT AGAGTTCACA GGGCATTITA 60
 AGGTAGACG TGAGTCCTTA AACATATTN GNTTCTCTC TCAGGTTITA AATGTTTCAA 120
 ATGTAATTNT TGCTCATCAG TGCAGTTATC AATGCAATTT NATATTCCTT GAGGGGAGAA 180
 AGNGGGGTCT TATTGTACAT GTCCAAGGGG GGTGATAAGA GTATTANCTG TTTAATTIAA 240
 TTGGANCAAN CCATTGTCTT AACGCAGCCA TGGTTTGANT TTGTCATCTT NGGGCTGACC 300
 GGTGCATGTA AATACAGTAT GCNCTTGGGA TGTAACTCCT NGAATGNCA GTGTTGNATG 360
 GTAGGTTATC CTNNGTNAA CCCTTNTCTC N 391

SEQ ID NO:5676

SEQUENCE LENGTH:271

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06743

SEQUENCE DESCRIPTION:

GATCCCTATA ACTCAAATA ACTTGTTTGT AAAAGAAAAT TTGTTTACTT ACCCATTAGT 60
 AAGTTCCTGC ATATTCATTA TAAGATGGCA AATCAAACCTT TTCTAGGATG AAGACAGCTT 120
 ATNTTNAAGT TGTATAGTCT TAGTTGGTTT AGGGTCTCAA TTTTAATTAA TAAATNCTT 180
 GGTTTTAATT TGCTTGTCTT TTTGAATTCC NGTTTAAATA ATNTNINNAG NGNGCAAAGN 240
 GATGTTGAAG TTCAGATTAA NCTCTNCTGA N 271

SEQ ID NO:5677

SEQUENCE LENGTH:166

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06744

SEQUENCE DESCRIPTION:

GATCCTGGAA GTAATCCGGG CACACTTACA TTTGTTGTCA ACAAGAACAA TCCTTTCATC 60
 TTCTTGGGCT TTCACATGAA CAGCCTTAAT AAAAACC GCC AGGACTCCCC AGAAAAGCAA 120
 ATGGTTCTTC ATCTTGACTT CACTTCTTCT GAAAACTGG AGCAAA 166

SEQ ID NO:5678

SEQUENCE LENGTH:386

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06745

SEQUENCE DESCRIPTION:

5 GATCACAAAT TAATGTTGGG GAAAATAAAG ATTTAATATT TCTTTAAATA GAAAAAGAAT 60
 TTGGTTTTCC TCGTTTAAGA GCAATGAGAA AATNATGGAA TGTGACTGT NTTTGGCACA 120
 CAGGACACGN ACCTTCATGG AAGTCCTTGC TCTGCGTGGC ATCTGTCAGC TTNACACCTT 180
 TCATTCTTAT TCTTCACTTT TGCTGCTGAG CCTAGCTGTA CAAACTTNGC ACTTTCATT 240
 10 GCTAATATAA ATTCAGTTTT ATTNTACCAT TTAGAGACT ACTAATGGTT AANTGTAGAA 300
 GGNNGGGGT GNACATGTTT TTATGTNGNG TGTNNAAAG GATATGTTTT NTNACCCNT 360
 GTNATGGTGG CAGCTTTNTN TTTTNN 386

SEQ ID NO:5679

15 SEQUENCE LENGTH:260

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06746

SEQUENCE DESCRIPTION:

20 GATCCAGGAA GCGGCTGGAG ACATTCCTGA GCCTCCTGGT CCAAAACCTG GCACCTGCAG 60
 AGACGCATAC CTAGAGGAAC TCTAACCCCG GTGTACCTGT ATAACTGAA CTGTGAACT 120
 GTTCGGTTA TCTCTGTCTT TTGAGGATGG CTTTGTCTTG TTGCTGGTTA ACATTCACCT 180
 TCCTCTTTTG AGGAGTATTT TTCCATTATG TATTCATAAT AATGTTAATT TCAATAAATG 240
 25 ACATTCATGC AGCAATTAAA 260

SEQ ID NO:5680

SEQUENCE LENGTH:183

SEQUENCE TYPE:nucleic acid

30 TOPOLOGY:linear

CLONE:HUMGS06747

SEQUENCE DESCRIPTION:

GATCAACATT CCAGGGTTGG TAATGTTGGA TGATGAAACA TTCATTTTTC CCTTGTGGAT 60
 35 GCTAGTGCTG TAGAGTTCAC TGTGTACAC AGTCTGTTTT CTATTTGTTA AGAAAAGNTA 120
 CAGCATCATT GCATAATTCT TGATGGTAAT AAATTTGAAT AATCAGATTT CTTACAAACC 180
 AAA 183

SEQ ID NO:5681

40 SEQUENCE LENGTH:124

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06749

SEQUENCE DESCRIPTION:

45 GATCTACTA TAGAGGCATC ACTAATTGGG GAAAGACAGA CTAGGTAATA GTCAGATGTN 60
 ATATAGTATG TTTAANCTAT AGGATGGCAG GTNCATGANT NTTGGTTGTA TTATCCTTTA 120
 TNTN 124

50 SEQ ID NO:5682

55

SEQUENCE LENGTH:268

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06750

SEQUENCE DESCRIPTION:

GATCTGAAGT TGCAGGTAA GCTGTNTGG TCAACATTCC AGTGTGAAA AATAATTAA 60
 ACAATCTTAT TCTCTTAATT CTTTGGCAA CAAAACTAT TAGTAATAGC TATTGGGAC 120
 CAGACAAAAT CAGCTTTCAT CTATAATTCA TTGGGGATAA TGGGAGATT AGATAATGTA 180
 TCCNGATTTA AACCTACCAG TTTGTCTAC CCCTTANGCG TTTAANATAA ANTATGCANC 240
 AAATTTGGNG GNANGNNGTG TGNNGTTN 268

SEQ ID NO:5683

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06751

SEQUENCE DESCRIPTION:

GATCAATGCA AAAATTGTTA TATATGAACA TATAACTGGA GTCGTCAAAA AGCAAATTAA 60
 GAAAGATTG GACGTTAGAA GTTGTCAATT AAAGCAGCCT TCTAATAAAG TTNTTTCAA 120
 GCTGAAA 127

SEQ ID NO:5684

SEQUENCE LENGTH:221

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06752

SEQUENCE DESCRIPTION:

GATCTTTACA ATTACAGTGT AGTAGACAAT TCGGAATTAA TTTGAAACAC ATCACAACAT 60
 AACTTGAGAA AATTCCTAN TGTATATGTA GTGTAATAA ATGTTTAAAG GCTGCAAGGA 120
 TTGCATTATA AANNCTGTTT GTNGGCTTC TAAGTCTTIN ATNCCTGTAT TGGGANTAAN 180
 CAGATTNAG AAAATGGATA TAAGCTGANA TGTATATTTN N 221

SEQ ID NO:5685

SEQUENCE LENGTH:146

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06753

SEQUENCE DESCRIPTION:

GATCATAAAT TTTCTCAGT GTCCTTTTG TGTGAACAC ATATATCTGA AACCTGTATT 60
 TAACCAGATA TTTCTACTCA ACTGAATATA CAAGTGTAAT TTTGATTGGA AAATTGTATA 120
 TTATAAATGA AAATACAATA ATCAAA 146

SEQ ID NO:5686

SEQUENCE LENGTH:344

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06754

SEQUENCE DESCRIPTION:

5 GATCCACCCA CCTCGACCTC CCAAAGTGCT GGGATTACAG ATGTAAGCCA CCGTGCCTGG 60
 CCAAAGTTT CTAATACCTG TTTATAATCC CCTTCTTTGT CCTCAGGTAA CACTATCTAC 120
 TACGTGTCTC TNCAGATTAG CTTGCAITTC CTAGAATCTA ACTTATATAA TTTAAATAAT 180
 ATAGTATATA CCCTTCTTTT GGCTTTCCTT ATTCAAGCTAT GTTGTGAGAT TCATTCATGT 240
 10 TGTTTAGAGT ATCAGTTACT AAGTAGTATT CCATTTTNGG CTATATCAAA NNTNGTTTGN 300
 CCATTACCT ATTAANGGGC ATTTNGCACT GGTCCAGNN TGAN 344

SEQ ID NO:5687

SEQUENCE LENGTH:132

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06755

SEQUENCE DESCRIPTION:

20 GATCTCTGTT TTGACTAAAC TAGAGGAAAA ATNATTGGAT GTGTTTATTC TTTCTAAGC 60
 AGAATGGTTT AACTTTGTAC TCTTTGAAAA ATAATGCTGA TTTATAAATC TCTGCCTATA 120
 NCAGAAATGGA AA 132

SEQ ID NO:5688

25 SEQUENCE LENGTH:244

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06756

SEQUENCE DESCRIPTION:

30 GATCCTGCTG TGGCACGGGG CCTATGTGTC TCTGTGCGGT CTGCTGTGAA GACATGATGC 60
 TCTATTATTT GTAGAGAGTG ACTTTATTG CTTTCTAGAA TTGTTTATAA CAGATGGTAT 120
 AAGAGAGGTA ATAAACAGAG AAAAATCTAT GCTTGTAAG AATACAAAAG TTAATTTTAC 180
 CTACTATAAT ATGGCTGGCT GAANCTTATT TCCTCTCTNN GNAATAAATG TTCTANTGGG 240
 35 CAAA 244

SEQ ID NO:5689

SEQUENCE LENGTH:143

40 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06757

SEQUENCE DESCRIPTION:

45 GATCTTNTCT ATACCATTTA ATGTAGAAAA ACTAATTTTC TATAATTNIN TCTATTAAAG 60
 GTGACATTAA TGCTGATAGA AAAATATTCC CACATATATC TNACTTGAA AACTTATAAA 120
 AATTGTGCTG TCTTTAAAT AAA 143

SEQ ID NO:5690

SEQUENCE LENGTH:219

50 SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear

CLONE:HUMGS06758

SEQUENCE DESCRIPTION:

5 GATCGCAAAG GGATTGTTCT TATAAAAGTG GCATAAATAA ATGCATCATT TTAGGAGTA 60
TAGACAGATA TATCTTATTG TGGGGAGGGG AAAGAAATCC ATCTGCTCAT GAAGCACTTC 120
TGAAAATATA GGTGATTGCC TGAATGTCGA AGNTCTACTT TTGTCTATAA AACACTATAT 180
AAATGANTTT TAATAAATTT TTGCTTCAGC ACTTGGA AAA 219

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SEQ ID NO:5691

SEQUENCE LENGTH:292

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06759

SEQUENCE DESCRIPTION:

20 GATCTAGATG AGATTACCCA TAGCAGGGAA AATAATTCAT CACCTACCAA AGACTGTACG 60
GAAAGGTGTG TTATTTTCAA AATTGCATTT TAGTTTGAC ACATGTAAAT NATTATCCTA 120
TGTTAATCTA ATTGACAATT CANTTAGCTC CGCATCCTAA GACTTAAAC TAGCAATTCC 180
TATGCAAATC ATCTGCTTAA CTGANCTACA AACGTTTTTC ATTAATTCAT TCTTTGATGA 240
CATATTCCAT GTTATATANT ANTNCANAAT AAAGTTAATA TACTACCCCA AA 292

25

SEQ ID NO:5692

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06760

SEQUENCE DESCRIPTION:

30 GATCCTCTCG CITGTTCACT GGGGCATGTA CAGTGGGCAC GGAAGCTGG AATTCGTATG 60
ACGGAGCTTA TCTGAAC TACTACTGAA CAGCTTGAAG GCCTTTTGAG TTCTGCTGGA 120
CAGGAGCACT TTATCTGAAG ACAAACTCAT TTAATCATCT TTGAGAGACA AAATGACCTC 180
TGCAACAGA ATCTTGATA TTTCTTCTGA AGGATTATTT GCACAGACTT AAATACAGTT 240
AAATGTGTTA TTTGCTTTTA AAATTATAAA AAGCANAGAG AAGNCTTTGT ACACACTGTC 300
35 ACCAGGGTTA TTTGCATCCA AGGGAGCTTN 330

40

SEQ ID NO:5693

SEQUENCE LENGTH:143

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06762

SEQUENCE DESCRIPTION:

45 GATCANAGGT CTTGAGGTCT TTACATCTTG ACATATACAC TGAAAAAAN GGGGGTTGTA 60
TGATNAATG TGCTACCCAA ACCNTGGCC GCCACTTTTA AATTCTCAGA TTGCCCTGAA 120
TTTTGNCAC TTNAAATAAT GNN 143

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SEQ ID NO:5694

SEQUENCE LENGTH:273

55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06763

SEQUENCE DESCRIPTION:

5 GATCTTAATG CTTCTCCTGC TCTGTAAGCC TCTNAAGAGC AATATCTAAT TAATTATTAC 60
 TGTAATTTTT TAAAAGGCTT TAAAGTGCCT CAGGGGTCCC CTGAAACTAA TTTCCTATTT 120
 CTGGGATTCC CTGGATTTCAT TATATGNNAT GGTGACATGA TTAGAGGAAT TCNTTTTAAG 180
 10 TATGAAANTT GTCCCTTTCC TNCITCAGTA CTTGCCTCCT NGCTGGCATT GANTTAACAC 240
 AGGGACAAAA TTTGGTTAAT TNNTNATTNC NAN 273

SEQ ID NO:5695

SEQUENCE LENGTH:337

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06764

SEQUENCE DESCRIPTION:

15 GATCTGTAAT ACAGGAACCA AATGTCATGC GTCATACATG TGGGTATAAA GTACATAAAA 60
 20 TATATCTAAC TATTCATAAT GTGGGGTGGG TAATACTGTC TGTGAAATAA TGTAAGANGC 120
 TTTTCACTTA AAAAAAATGC ATTACTTTCA CTTANCACTA GACACCAGGT CGAAAAATTT 180
 CAAGGTATA GTACTTATTT CAGCANTTCT TAGAGATGCT AGCTAGTGTT GAAGCTAAAA 240
 NTAGCTTTAT TTATGCTGGG NTGGTGATT NTTTTGNCA AAATTTTTNT AGNGCGAANC 300
 25 ATGTGGTGGN TAGCTTGGNN ATGAANGAAT TNTGNCN 337

SEQ ID NO:5696

SEQUENCE LENGTH:290

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06765

SEQUENCE DESCRIPTION:

30 GATCTAGAAG TTGCAACATT CGTTTGATAG GAATTCAGA AAAGNAGAGT TATGAGAATA 60
 35 GGGCAGAGGA CATAATTAAG GAAATAATTG ATGAAANCTT TGCAGAACTA AAGAAAGGTT 120
 CAAGTCNCGA GATTGTCAGT GCTTGTGAG TACCTAGTAA AATGNATGA AAAGAGGCTG 180
 GCTCCTAGGC ACATCTTGGT GAAATTTTGG AATTCCTAGT GATAAAGGGG AAATNATAAG 240
 GGCTNCTAGN GGGNGANGGG AATTNCNTGC CAGGGANCAG GNTCAGTTGN 290

SEQ ID NO:5697

SEQUENCE LENGTH:393

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06766

SEQUENCE DESCRIPTION:

40 GATCAITCCT GTATTAACT TTCATATGCC AAAAGGGTTT GTCCCGTTTN ATCTGCCATC 60
 45 AGTGTTTGAC CTGTTTAGGG CAGAGGCAAT AAGTCAGAAG TCTTGAAGTT GAAATAGTTA 120
 TATGTGTGTC ATTGGACTGG ATTATAACA GCTGTCTTGG ACTTCCCTC TCTTAACACT 180
 50 GACTGGTNAT CAGTATCATT AGTGAAAAAG NAAGCAAATT GTTTGTNATC ATCTCTTTAG 240

NCAGGTAAGC TGGAATGGGT GGGGCTTTAA ATAATANAAN CATGCGCATN GTTGGCTTGT 300
 GTATGGGCCT NCTCTTGGGA TTCCTNGTNG TNATGGGCTT GGTATTTTGG GTNCNTGATT 360
 TTGTCCANNG GCANTNCCAG GTGGGTGCCA NCN 393

SEQ ID NO:5698

SEQUENCE LENGTH:176

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06767

SEQUENCE DESCRIPTION:

GATCCANGNT AAGAGGCNCC CCCCCGACCA GCAGAGGCTC ATCTTTGCAG GCAAGCAGCT 60
 GGAAGATGGC CGCACTCTTT CTGACTACAA CATCCAGAAA GAGTCGACCC TCAACCTGGT 120
 CCTGCGCCTA NGGGTTGCTG TAAATCTTCA ATCAATGCAA TNNCNATGCC CATNAN 176

SEQ ID NO:5699

SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06768

SEQUENCE DESCRIPTION:

GATCTACTCA GACAGGACCT TCGCACCTTT GCCAGAGTTT GAGCAGGAAG AGGATGATGG 60
 TGAGGTAACCT GAGGACTCTG ATGAAGACTT TATACAGCCC CGNAGAAAAAC GCCTAAAGTC 120
 AGATGAGAGA CCAGTACATA TAAAGTAAAA TNACATGGAT TTAAATCAAT TGTTTAAA 178

SEQ ID NO:5700

SEQUENCE LENGTH:233

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06769

SEQUENCE DESCRIPTION:

GATCGTTTCT TTAGAAAAGT GGCATTGGCT TTTGAATATG AAATCTTCTC ATAGCTGCCT 60
 AAAAAAGACT AGAATGTATA TGGATATCAG AAACCTTTAA TAATACATAA TTTATGCAAA 120
 GATAAGATAA AGCAACATAA CACTAATTAT AAAACTATTT TTTAAATCCC ATTTTAAATG 180
 ATAANTATAC ATTTNTATTT AATTCCTTT GANTAAAACA NTTGTAAAGT AAA 233

SEQ ID NO:5701

SEQUENCE LENGTH:374

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06770

SEQUENCE DESCRIPTION:

GATCTTCATC TGAATATGAC ATAAAAACAA CTTTATACCC AGAAAGTTAT TGATAAGTTC 60
 ATACATTGTA CGAAGAGTAT TTTTGACAGA NTATGTTTCA AACTTTGGAA CAAGATGGTT 120
 CTAGCATGGC ATATTTTCA CATATCTAGT ATGAAATTAT ATAAGTNTTC TAAATTTTAT 180
 ATCTNGTAGC TTTATCAAAG GGTGNANTT ATTTNNTTCA TACATATTT NGTAGCACTG 240

ACAGATTTC ATCCTNGTCA CTACCTTCAT GCATAGGTTT NGCAGTATAG TGGCGCCACT 300
GTTTGAATC TNATAATTNA TACAGGTCAT ATTANTNTAT NGCCCTTAAA AAANATCAGT 360
TGTTCCAGNG GAAN 374

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SEQ ID NO:5702
SEQUENCE LENGTH:452
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06771

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SEQUENCE DESCRIPTION:

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GATCCTCCTG CCTCAGCCTC CTGAGTAGAC GGATTATAGG CACCTTGCCC AGCTTCTATA 60
GCAGCATTTT TTTCTAACAC CTAATAAATG GAAACAAGCC AAATGCTCAT CCACTGGTAA 120
ATGGATAAAC AAAGTGTAGT CTTTCTATAC ACTGGAATAT TTGGCTATAA AANAGANTGA 180
NATATTGATA CATGCTACAA CATTGATGAN CTTCAAAAAC ATGCTAAGAG AAAGCCAGTC 240
ACAGAANAAT ACATNGTATT CTATAAGAAT GTCTAGGGAN CGTNAATCTA TATNGGCAGA 300
AGGTAGGTTN GTGGTTGCCT AGGGCCCGGG GGGAAAGGGT TAGGGGCGCT NGGGGGTGNC 360
AGCTTATGGG GCTGCTAATN GGGCCTNCCG NTTCTCTTN GGGGGTTGGT ACCCTGCTAA 420
ATTGNCCTNN TTGCNTGGT TTTNNCCCG GN 452

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SEQ ID NO:5703
SEQUENCE LENGTH:257
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06772

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SEQUENCE DESCRIPTION:

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GATCTGTCCTG TGCACATGCC TCTGTAGAGA GCAGCATTCC CAGGGACCTT GGAAACAGTT 60
GACACTGTAA GGTGCTTGCT CCCCAAGACA CATCCTAAAA GGTGTTGTAA TGGTGAAC 120
GTCTTCCTTC TTTATTGCC CTTCTTATTT ATGTGAACAA CTGTTTGCT TTTTGTAT 180
CTTTTTTAAA CTGTAAAGTT CAATTGTGAA AATGAATATC ATGCAATAA ATTATGCAAT 240
TTTTTTTCA AAGTAAA 257

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SEQ ID NO:5704
SEQUENCE LENGTH:77
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06773

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SEQUENCE DESCRIPTION:

GATCANGAAG CTATTTTCNA TTCTGGGGAA CGATTATAAC TTAAATNATT GTTTTAATAA 60
AAATTCTAAG CTGAAA 77

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SEQ ID NO:5705
SEQUENCE LENGTH:278
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06774

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SEQUENCE DESCRIPTION:

GATCCAATTT CTITGTGGTA CCTGCAGTTT AAAAAATAAT TTGACTTCAG TGAGCATATT 60
 GGTATCTGGA TGTCCAATT TAGAACTAAA CCATATTNT TACAAAAAGA TATTAATCCC 120
 TCTACTCCCA GGTCCCTTT ATATGTTAAG ATATAATGCC TTTGAGGGGG GAAAAATAA 180
 ACCTAGGGGA GAGGGGAGTT TCCTGTAGTG CTGTTTCATT AGAGGATTTC AGTAAATTAA 240
 ATTCCACAGC TAATTGAATA AATAATGGNA CCTTTAAA 278

SEQ ID NO:5706

SEQUENCE LENGTH:308

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06775

SEQUENCE DESCRIPTION:

GATCTGCATA TNATGTATTA GGTTAGGTCA CAAAGGTTTT ATCTGAGGTG ATTTAAATAA 60
 CTTCTGATT GGAGTGTGTA AGCTGACCNA TTTCTAATAA AATTTTAGTT GTACACTTTT 120
 AGTNGTCATA GTGAAGCAGG TCTAGAAAAT AAGCCTTTGG CAGGGAAAAA GGGCAATGTT 180
 GATTAANCTC AGTATTAANC CACATTANTC TGTATCCCAT TGTCTGGCTT TTGTAAATNC 240
 ATCCAGGNCA AGNCTAAGTA TGTGGTTAA TAGGNATCCT TTTTTTTTTT TTNAANGCCT 300
 AANNGGGN 308

SEQ ID NO:5707

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06776

SEQUENCE DESCRIPTION:

GATCGTAACC CCTTGTGAC TAATCTNGCC GTGGTTTTGT NTAGGTCTGC AGGAAGGAAG 60
 NCTNAAAAG CGGACGAAGA TTTTNACTTA AGTGGGACTT TGTN 104

SEQ ID NO:5708

SEQUENCE LENGTH:137

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06777

SEQUENCE DESCRIPTION:

GATCCTAGTA AGTCANTNGT AGTTTACTGG TGANGTGAGC ATTNTAGATT CCCCCNTTAT 60
 CACTAATCAC ACAACAATT TAAGAAGTAG GCTATAAAC AAAAAAGGT TGCTGTTTTC 120
 TATTTTAAA TAAACNN 137

SEQ ID NO:5709

SEQUENCE LENGTH:333

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06778

SEQUENCE DESCRIPTION:

GATCTCATTT GCTGGAATGA TTGATTAAAG AGTAAAATTA GCCACTGCGT NTGNTNGTG 60
TATAGTAACC GGTITNTTGG CACTTGTCTG TGGCTGAAAC ACTTACCTGC AGTGGAAAGC 120
CGTGCAAGGA GGAGGTAAAC ATTGGAGATG TTTGTNAAAA TATTACTCTT GCTGTGAGGT 180
TTTAGTTTGT TTTGAATGAG AAAAGACTAA GTAACITAAT CCATCTCAAT GTAGTGTITT 240
AATANNNGG GNNCTAATA TTTGANATGG GTCTCAGACA TGTCTACAAA TATGGGTACT 300
ATTTTNTGTC CCGTGTATTT TCACATTNA NAN 333

SEQ ID NO:5710
SEQUENCE LENGTH:126
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06780

SEQUENCE DESCRIPTION:
GATCCTTATA AATNAGAAAC ATGCAAGCTT CAGCTGCTCG AGTTCATAG TGTACCTAA 60
ATCGTATGTG TATGATACAT AAGGTTATGT ATTAATTGTA GCCCGGTGNN CNTCGNGGGN 120
ACCTTN 126

SEQ ID NO:5711
SEQUENCE LENGTH:133
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06781

SEQUENCE DESCRIPTION:
GATCCGGCAA ACAACCACC GCTGGTAGCG CGTTTGTNTT TGTTCGAAG CTCAGCTGC 60
TCGANTCTA TANNGCCACC TAAATCGTAT GTGTATGATA CATAAGGTTA TGTATTAAT 120
GTAGNCGTTN GCN 133

SEQ ID NO:5712
SEQUENCE LENGTH:116
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06783

SEQUENCE DESCRIPTION:
GATCCTTTTA AATNAAAAAT AAAGTTTTAA AAAAAACAT GCAAGCTTCA GCTGCTCGAG 60
TTCTATAGTG TCACCTAAAT CGTATGTGTA TGATACATAA GGTATGTAT NCNNNN 116

SEQ ID NO:5713
SEQUENCE LENGTH:268
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS06784

SEQUENCE DESCRIPTION:
GATCTTCTCA ATGGGTGGNC TCCTGGTATT CGTGGGACCA CCTGTGGGCA CAGGAGCCAA 60
TGTGGTTTCA ACAGCTGGGC AGAGGGAGCT GCTAGTCAGC TGTTCGCCA CACTCTGCCT 120
GTCATGGTGA TTTGNACCCT ACCCCCTGG TCCCAGNGNC CTGGGGCTCA CTTGATACCG 180

TTGAAAGTAA GCACAGNCTG CATGTNCTCA GGNAGGNCCT GGGGCTCAGG GCACTCGAAG 240
 NCATCAATGN TGGGNACANT GTTNTTGN 268

5 SEQ ID NO:5714
 SEQUENCE LENGTH:129
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06785
 10 SEQUENCE DESCRIPTION:
 GATCTCAGAA TACAAATTTA AATAAATTAA TTTAATTCTC AAAACACCCT TGATTGGAAC 60
 TTACAGCTGG CCCTCTGTAT TCGTGGGTTT AACCAATCAC TAATTAATAA TATTGGAAAC 120
 AANNNNNNN 129

15 SEQ ID NO:5715
 SEQUENCE LENGTH:214
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 20 CLONE:HUMGS06786
 SEQUENCE DESCRIPTION:
 GATCCTGCAT TTATGGTGTA GTTCTGAGTC CTGAGACTTT TCTGCGTGAT GGCTATGCCT 60
 TGCACACAGG TGTGGTGAT GGGGCTGTTG AGATGCCTGT TGAAGGTACA TCCTTTGCAA 120
 25 ATGTCAAGTTT CCTCTCCTGT CCGTGTGTTT TTAGTACTTT TATAATGAAA AGAAACAAGA 180
 TTGTTTGGGA TTGGAAGTAA AGATTAATAAC CAAA 214

SEQ ID NO:5716
 SEQUENCE LENGTH:253
 30 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06787
 SEQUENCE DESCRIPTION:
 GATCTAATCC CTTCAAGGAA GTGATAACAC TGGAGTGGTA ACAAGAGGAG CAGGAAGCAA 60
 35 GGGCAGCCCT GGTTCCTCAT CCCCATGTGT TTCAGGTGGA ACAGGAGGAA CTGGNCCAGG 120
 CCAGGCCCTCA TCCTCCTGGA CCCAGCAGGG GCAGAAGGAG GAAGGGACTG GTCCAGGCAT 180
 GGGTCCCTTC CCNNTGCTCC ATGGGCANCT CTGCTGTATT GATATCACTA GTAAAGTCTG 240
 TCTGCACTGC AAA 253

40 SEQ ID NO:5717
 SEQUENCE LENGTH:332
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 45 CLONE:HUMGS06788
 SEQUENCE DESCRIPTION:
 GATCATGTCT TTCAGAATCC ATGTACATAT AGGCTGTNCT AGCCACAGTG GTAGATTAT 60
 GATTACATC CGAAAGTGTG CCTTAGTTAT CAATTAAACA TTTCTTAGT ATTCATATCC 120
 50 CTTTCCTTAC CATATACCTC AGTGTATCCT TCCTGTGTCA AGCCTTATAA ATCATGTAAT 180

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TTAGTGCCAC TCATGTAAAT CAGTAAATC ACAAAGGTCT ATTTAATGAA AACGATTAC 240
 CAATGTTGTT TTTTTTTAAAC AGGANAAGNA NTAGNAGCAC NTTGTCATT TTNAGANGGN 300
 GGNNTTGTG GGNNGTGGG GGGNNGNTG GN 332

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SEQ ID NO:5718
 SEQUENCE LENGTH:284
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06789

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SEQUENCE DESCRIPTION:
 GATCATGCCA CTGCACTCCA GCCTGGGCAA CCAGGTGAGA CCCTGCCTCA AAAATAATAC 60
 AATAAAAAGT AAAAGCAGCC CTGGGGAAT GGAGACAGTG GACAAAGCAG GCTGGGGCAC 120
 CAGGTGTGCA TGTGGGTGTG AGTCTGTCTAT GAGAGCTGTC CTGANTGCC TTAACGCCAC 180
 TGAACGTAT GCTGGAAGAC AGTGACAACA GTGGATTTG TTATATAGAC AATTANANN 240
 GTATANCACC CAGAAANNT GTGTGNTGT TGGGNGTGG TGNN 284

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SEQ ID NO:5719
 SEQUENCE LENGTH:253
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06790

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SEQUENCE DESCRIPTION:
 GATCTTTAAC TCCTCCTGGC TGCACCTGGG TAGGGATGGT GGCATCGATG CCCCTCTGTC 60
 TGCTGAAGGA CCTGTGCTG CTTCTGTCTT TTCACCCCTC CTGGCTGAT GACCCAGAGC 120
 CCTCTGATGA TGGCATTCTC CTGGCAAGAG AAAAAGACTT AACTAGACTT CTGAACCTGA 180
 ACAGTTTCAG GTTATATTTT AATTTNNNT TTTTGTGAC NGGTNCNGAT NCTAATACAT 240
 TNCACCNNGC AAA 253

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SEQ ID NO:5720
 SEQUENCE LENGTH:389
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06791

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SEQUENCE DESCRIPTION:
 GATCCACCCA CCTCGGCCCC ACAAAGTGCT AGGATTACAG GTGTGAGCCA CCATGCCCGG 60
 CCCAGAATAC TTTTAAAAG AAGAGCAGGT TAGAGGAAAG AAAAAATTG ATGCTGAATG 120
 TGGTGATGAA AGCATGTTT TAAATGGGA AGCAGATGCT TAANGAGGAA AGACTAATCT 180
 GGGATTTTGC CCCATTCTC TGGNTTTTCA CTCCTATATT TNATTCTCAC AATCGTGTG 240
 TCACATAGTG CANAANACAN ATTCTTGTA AAGTCCCAG GGGTTTATGC TTGGGTGAAA 300
 GTTTTAGCCT GAGTATTTT CTNCTCTAA AAANAGGTGG GGANTGNGNC ATTTGAGGNT 360
 NTNACCTTT TAATTGTNCT GCTATNGN 389

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SEQ ID NO:5721
 SEQUENCE LENGTH:174
 SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS06792

SEQUENCE DESCRIPTION:

5 GATCTGGTTG GGGTTTGGG TTTTGTGTTG TTGTTGTTTA TTTGTTATTT TAAAGGTAAA 60
 TTGCACTTTT AAAAAAATAA TTGGITGACT TAATATATTN NCTTTTTTNC TCACCTGCAC 120
 TTAGAGGAAA TTTGAACAAG TTGGAAAAAA ACANNNTTNG TTTCAATTCT ANGN 174

SEQ ID NO:5722

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SEQUENCE LENGTH:367

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06794

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SEQUENCE DESCRIPTION:

GATCCTATGT TGCTGGAAC TGCACAAACAG GATGTTGTGC TCAATNACCC CATGTGAGTG 60
 CGTGGACTCC TGGGAGCTCC TGCTCCNTAC AGTGGGCTGC AACTCCTGTA CTTGAAGCTG 120
 AGACCTCATA TGACGTGGCC TTCGTGTTGT CAGAGAGTGT CTGGAAGCTG CTGTTGCCAT 180
 CTTGAACAAC TCACCAACCT CCAACCCAGA GCCCCAGTGA GAGAGGAGCA TTTGGCCTCC 240
 20 TGTTCCTTC TGTGGCCTCT GCCGGGCTCC ATTNCCAAGG AAAAGAGAGG AGCTTGGGCT 300
 CACAGAAAGA GAAGGGGATG AAACCCCAAG NGGCCCTATC TTTTGGGATT TACATGGGAT 360
 TTTTATN 367

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SEQ ID NO:5723

SEQUENCE LENGTH:311

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06795

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SEQUENCE DESCRIPTION:

GATCCTGAGT AATCCTTTTA GAGCCCGAAG AGTCAAAACC CTCAATGTTT CCTCCTGCTC 60
 TCCTGCCCCA TGTAACAAA TTTCAGGCTA AGGATGCCCC AGACCCAGGG CTCTAACCTT 120
 GTATGCGGGC AGGCCAGGG AGCAGGCAGC AGTGTCTTC CCCTCAGAGT GACTTGGGGA 180
 35 GGGAGAAATA GGAGGAGACG TCCAGCTCTG TCCTCTCTNN NNNCTCCTNC CTTCAGTGTC 240
 CTGAGGAACA GGACTTTCTC CACATTGTTT TGTNTTGCAA CATTTTGCAT TAAAAGGAAA 300
 ATCCACTGAA A 311

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SEQ ID NO:5724

SEQUENCE LENGTH:342

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06796

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SEQUENCE DESCRIPTION:

GATCCTCCGG CCTCAGCTGG TCTACAGGCG GGTAAATCAAG GGAAGGGAC TACAGGCAGG 60
 CCCTGCCGCG CCGGGACAAG TTTTGTATTT TTAGTAGAGA CAGACTCTCC CTGTGTTGCC 120
 CAGGCTGGTC TCCAATCCTT GGGCCTCCCA AAGTGTGGG ATTACAGGCG TGAGTCACCC 180
 CTGCAGGCCA CAGCTTTGCT TTTTAAAAAG ATTTCTGCAT AACTAAAAAG ACAGGAAATT 240
 50 ACGAGCATAC GGNAACTGAT TTCTGCTTTC CTGAATTTTC TAAATGTATT TAATGGGCAT 300

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GGTTCTTTTG CAATGAAAAA GTAATANATT NGGGTNTCAT CN

342

SEQ ID NO:5725

SEQUENCE LENGTH:312

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06797

SEQUENCE DESCRIPTION:

GATCCGCCGA CCTCGGCCTC CCAAAGTGCT GGAATTACAG GCGTGAGCAC GTGCGCCTGG 60
 CCAAGAATGG ACATTTTITA AAAAAACATC AGTACTTCCT ACCACTGCTG CATGAGTATA 120
 ATGCTCCGGA ATTATCAGAA AGCATAATGC AGAAATACGA ATTAGTGGAA CTTAATCATG 180
 TGCCATATAA GCTTACCTAA CAAACAGTTA TATCCCTATT CCTCAACTGA ATGTCTTTTA 240
 ATAAATNAGA NTTTTATCATT TNNNGTANGG GTGNGTGTGN GGNTGGNNGG GGGGGGGGNG 300
 GGGNNGGGGN GN 312

SEQ ID NO:5726

SEQUENCE LENGTH:132

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06798

SEQUENCE DESCRIPTION:

GATCCTAGGC TCCCTCCATC CCTGGTATGT GGTCTCATT TTCATATAGA CCAAGAGCTA 60
 GAGCTCCAGT TACCATTCTT TAAAGTATAT TTTAATGCCA AATAGTGAAT AAAGGTGGCC 120
 AGAAAAATCA AA 132

SEQ ID NO:5727

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06800

SEQUENCE DESCRIPTION:

GATCANCTAA GGTCAAGAGT TNGAGACCAG CCTGACCAAC ATNGTGAAAC CCTGTCTTTA 60
 CTAATAATAC AAAAAATTAC CAGGCACCTA TAATNCCAGC TACTTCAAAG GCTGAAGCAG 120
 GAGAATCACT TGANN 135

SEQ ID NO:5728

SEQUENCE LENGTH:334

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06801

SEQUENCE DESCRIPTION:

GATCAGTGGG CCTCCAAGGA GGGNCTGTAA AATGGAGGCC ATTGTGTGAG CCTATCAGAG 60
 TTGCTGCAAA CCTGACCCCT GCTCAGTAAA GCACITGCAA CCGTCTGTNA TGCTGTGACA 120
 CATGGCCCCCT CCCCTGCCA GGAGCITTGG ACCTAATCCA AGCANNCTCTT TGCCCAGAAA 180
 GAAGATGGGG GAGGAGGCAG TAATAAAAAG ATTGANGTAT TTTGCTGGAA TANGTTCNGA 240

TTCNTCTGAA CTCAAACTGA GGAATTTCAC CTGTNANCCT GNGTCGTACA GANAGCTGCC 300
TGGTNTATCC AAAANGCTTT TTNTTCCTCC TGTN 334

5 SEQ ID NO:5729
SEQUENCE LENGTH:158
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS06802
SEQUENCE DESCRIPTION:
GATCCTGTAA GCAGACTTGG GCAGTCTCCT TTAGAAATAG GTTGCTGTA CATGTTCTAN 60
GGTNTTGTAG ACACGTGTGA CTGTNTANGT GTATTGATGT GAATANTATT AAATATCCTA 120
ATTATNTAAT TCATTGTATT GTTCTGNGA AGTTGGGN 158

15 SEQ ID NO:5730
SEQUENCE LENGTH:106
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
20 CLONE:HUMGS06803
SEQUENCE DESCRIPTION:
GATCCATANA AGAGCTCCTA AAGAAGAACC CACATGAAAA ACTATCAGAA TCATGTTTAA 60
GCTAAACCCA TATNCAAAGA CCAANCNACG NACCACCATT CTTCGN 106

25 SEQ ID NO:5731
SEQUENCE LENGTH:105
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
30 CLONE:HUMGS06804
SEQUENCE DESCRIPTION:
GATCCTGGTG TGTGTATTAT ATAAAGAGAC CCCTCCCTT ATTTGTGTT TTCCATCCCT 60
CTCCCTTAAC AGGATTGAAA TAAACATGC TTCTGTTTT GTAAA 105

35 SEQ ID NO:5732
SEQUENCE LENGTH:243
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
40 CLONE:HUMGS06805
SEQUENCE DESCRIPTION:
GATCANCAAA ATCCAATTC ACATGTGGCA CTAGGAAAAT GGAATGCTAT AAAATTAATC 60
CCCATCACCC AAGTAGGGAT GCTGGTGCTT TTATACTGAG TCTTTACTGC CAATAAGTGA 120
TGCTGGCTGC AAAGGANCAG CTCTACAGAA AGTTTTTGGG TTAGTGTTTC CCTAGCTTAT 180
TNCTGCANTG GGGAAAGCCA GTTTCATACC AAAAANGANA ATGNAGGTGN TTATANTGGN 240
NNN 243

50 SEQ ID NO:5733
SEQUENCE LENGTH:194

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SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06806

SEQUENCE DESCRIPTION:

GATCTCGGTC ACGTGTCCTG GCGCTGAGG GAAAAGGAAG CGGGCATGAT TGTAGACAAT 60
 GAGGGGGTTC TCTTGATGTA ATGAAATGCA ATTTTATGGT TTGGTGCAAA AACTCCTATT 120
 TTCCAGTAAA TTAACCTTAT TTCTAAAGCA TATTTTGATT TGCCATCAAG AGCAATAAAG 180
 CATTAAATCT TAAA 194

SEQ ID NO:5734

SEQUENCE LENGTH:216

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06807

SEQUENCE DESCRIPTION:

GATCTGGGCC CTGAAGTATA TAAGTAGGAA TTTGCAAGAT GGATGAGGTA GAAAANNNGTA 60
 TTTCATATTG TGGAAATAAC AGAGGGAAGA GCCATTTGTC TTATCCCCAA CTCCAGAACT 120
 CTACTACTCA TGGAGTCTGA CACAAACAAT GTTAATAATC TGTTNAGTT CTCATNATAG 180
 GGCCTGGAN TTGGCTGTAA ANTNCAAANC ACNTNN 216

SEQ ID NO:5735

SEQUENCE LENGTH:133

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06808

SEQUENCE DESCRIPTION:

GATCTTCTAG TTNCTGTGTT GTTTAGACTC AAAGAATCAC AAATNTGTCA GTAACATGTA 60
 GTTGTITTAGT TATAATTCAG AGTGACAGA ATGGTAAAA TNCCAATCAG TCAAAGAGG 120
 TCAATGANTT ANN 133

SEQ ID NO:5736

SEQUENCE LENGTH:275

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06809

SEQUENCE DESCRIPTION:

GATCTTAGCA CCCAACTCTG CTGCCCTTNC TGCTGGGCAG TGCTNTCCT AAGAGGGGAC 60
 TCCCTAAAGG CCAGAGAGAG GGTGCTATC TCCAGGACCT AGGCCACCTG TCAGCACAAA 120
 CAGAACTTAT TCCAGACATA AACATGAGTC TTCTTATTC AAACACTGGA GCAACTGNTC 180
 AAATATCACT CTCCTACTTA CAGGNTCAN CATACTNGTC ACAGCCCTTT ACTCCCNCTA 240
 CATATTNCC ACANCACANT GGGGCTCANT NNCCN 275

SEQ ID NO:5737

SEQUENCE LENGTH:211

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06810

SEQUENCE DESCRIPTION:

5 GATCATGCTA GTNACTTCCT GCGCCAGGC ACCGTGCCAA ANACTGGATG CCCCCTACTC 60
 CTCAGGGGAC TGTCCAGGGC GCCCAGTGGT AGTGAGGGAG AGTGTCTCTG TTCTTTTGCT 120
 CAGCCTGCTG GGCCCTTTGT GTTTAGGAT GCTTAATGAT TCCAGCCTCT CACTGTGCCT 180
 TATGCATTAA AATTNCTTTG TTACGAGCAA A 211

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SEQ ID NO:5738

SEQUENCE LENGTH:133

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06811

SEQUENCE DESCRIPTION:

GATCTNCTTT ATAGCCANCT CTCCTCACTT AACAGGTACT TTCTCCAAAA ACCTAAGAAC 60
 CAAAGTCTTC CGCTTGCAAC TTGGGATGGT GATATGGCTG TGTCCCACC CAAATCTCAT 120
 CTNCACCTGN NNN 133

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SEQ ID NO:5739

SEQUENCE LENGTH:169

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS06812

SEQUENCE DESCRIPTION:

GATCATCGCA AGGAAGNAGG CAGACAAGAG TAAGGCACAC CTGACTCTTA GGAAGCAG 60
 TCAGAACCAG GAGGAAAGNT TTTATTGCTA TGCGGGTAGG TAAGAACAGA TTTACTTAC 120
 ATCCATATAG TTAATTAAAG TCCAGTTTTT TGTTAAACNN NNTTCTNN 169

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SEQ ID NO:5740

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS06813

SEQUENCE DESCRIPTION:

GATCTCTTGT CCACTAAGTA TCTTGTTAAA TGCCAGTATC TCAGTCTTTC TGAAGCCCTG 60
 AAATGGTAAT TGTAGCATTT CAGAAAAATNT CTTTCATTTT AATCAATAAA AAGCTTTTGT 120
 AAATAAA 127

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SEQ ID NO:5741

SEQUENCE LENGTH:179

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS06815

SEQUENCE DESCRIPTION:

50 GATCTTCCAG ATTAGGCTAA ATGTAATGAA AACCTCTTAG GATTATCTGT GGAGCATCAG 60

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TTTGGGAAGA ATTATTGAAT TATCTTGCAA GAAAAAAGT ATGTCTCACT TTTTGTTAAT 120
 GTTGCTGCCT CATTGACCTG GGNAAAATGN AACAAACAN TAAGGCAANT GGTAGGAAA 179

SEQ ID NO:5742

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06816

SEQUENCE DESCRIPTION:

GATCAGCCCT NCCCTTCAGC ATCCTCAGNT CCTGNAGCAG AGCCTGGAAG ACACCCTAAT 60
 GTGGCAGCTG TCTCAAACCT CCAAAAGCCC TGAGTTTCAA GTATCCTTGN TAACACGGNC 120
 ATGACCACTT NCCCGTGGG CCATGGCAAT TTNACACAA GCCTGAAAAG ATGTTGTNTC 180
 TTNTGTTTTT TTCTTN 196

SEQ ID NO:5743

SEQUENCE LENGTH:326

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06817

SEQUENCE DESCRIPTION:

GATCCGCAGT CCTAACAGGG TGAGAAAGCA CAAGAGGGGC CAGCTCGGCT GAGGCCTGAG 60
 GAGAAATAAT GAGAAGTTTT GTTTCGTTCT TGGGCTGGGG CATCTCAGGA ACAGTGAGGG 120
 CAACAAGCTG TCCCTCAGGG ACCCTCACCT GCCCTCCCAT GTGACCAGGC CCTTCCCAGG 180
 TGGGGACTGG GGCCTGCTTT ATTAAGTGAG CTCTTGGGCT TTTGAAGTAG GACAGAGGGC 240
 CCTGCTTTGG CAGAGAGGAG GCAAGGGAGG GCTTTAGAAC ATCTGAGAAA TGTTAATAAA 300
 ATANTTCAGA AANTAGGAAA AAAATN 326

SEQ ID NO:5744

SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06818

SEQUENCE DESCRIPTION:

GATCTCGAAC CCTGTCTAGA AGGAATNTAT TTGTTGCTAA ATGTTCACTT TTTATAGTNA 60
 TGTCTGTAT TCTAACAGT AAAGGGGNTT TATTNCTATC AAAAA 105

SEQ ID NO:5745

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06819

SEQUENCE DESCRIPTION:

GATCTCAGAA GTTTTAAAA ATAGCAAAGA AGACTGNATT TGGAAANCAT GGTCTACAAT 60
 TGGNTGTAA ATNCTGAAGC TATGAAGAAT AAATATTTCA ACTTTGGATT ATGAAACCCC 120
 ATTTATGATT TTTTAAATAC ACTTGAAATA AAAATGATTA AACTAAA 167

SEQ ID NO:5746

SEQUENCE LENGTH:258

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06820

SEQUENCE DESCRIPTION:

GATCTNTAGA ATTNTTATTG TAATTTTCCT ACTTCITTGA TAAAAGAAAA ATAAGTCAGA 60
 TTGTAACTC CAAGATTGAA AAAAAAACT CTTGAAAGAN GATTATNAGT TGTAACNAAT 120
 TTGGGGGGTC TGGGCACAGA CATCTAACCT GGTATTGTAA GGCAGAGGCT CCCATTGGAN 180
 TGGTAGTGGT CCGGGTCAGT TGTTCATGGT GTAAGCTTTG CACNGTGTAT TGAACATTNG 240
 NAGGNTCTGN CTNGAAAN 258

SEQ ID NO:5747

SEQUENCE LENGTH:350

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06821

SEQUENCE DESCRIPTION:

GATCCCTGCC CTNTCAAGA CTTTAGCTNT TCCTTCCATC CGGTGGCCTA TTCCAGGAAT 60
 TCCTCTTTTG CTAAATCAG TTGGAGTTTG TNTCTGTTGC TTGTAATCAA GCCTTTATGG 120
 CTGCTGGGCT GAGTGACACA AGCACTTTAA TGGCCTGGAG GGACTTTTAA TCAGTGAAGA 180
 TGCAATCAGA CAAGTGTTTT NGAAAGAGCA CCCTCGNGAA GGGTGGATGA CAGGGCAGGG 240
 CAGGAAGGNC AGGNAGATGG CAGAACGGTG GTGGCTGCAG CCGGGGGTNC AACCAGGANA 300
 CTGTTGGCA AGCTNGGGGC TAGGGGGTAA GGNNTTTTNA GGGGTNGAAN 350

SEQ ID NO:5748

SEQUENCE LENGTH:331

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06823

SEQUENCE DESCRIPTION:

GATCTTCCAT GTTTTGACGT TTGCAGTCAC ACACAACACC TTAGTTCCTC TAGGGGCTGT 60
 ACAGTATTGT GGCATCAGAT AATGCCACCA AAGGAGACAT ATCACTGCTG CTGGGACTTG 120
 AACAAAGACA TTTATATGGG TTTATTTTCA TTCTGCCAAA GTAAANCANT ACATCAACAN 180
 GAGGAAACTC AGNTTTAACC TGTTATTTCT ATGANNNTGG GATGATTGCT TTGTTTATGC 240
 ACTTTTTCCT GNCCTGTGCAT CCGCCTGTNA GTGTTTTGCC CTNTAGTCCC TCACTAGCCA 300
 TGCTTNTGTG NTGGGTTATC ANGGGNGTNN N 331

SEQ ID NO:5749

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06824

SEQUENCE DESCRIPTION:

GATCGAGGAT ATTTTAAAG AGGTTCAAGC TTGTGACTGT TAGTAGTGCA AGGATTGTGA 60
 TGGGCTCAGT GATTACAAAC AAAGACATGC AAANTACAAC TGTTAAACA TTTCAAGGT 120
 ATTTTAAAG GTTTGTATT GAAACANTGT TTATATTNC TGAGTCCTA AAAATGGTAG 180
 ANTACACATG ANANCTTTG TTTAGGAAAN GTTANCTTGT TAANTNCTNT TGATTN 236

SEQ ID NO:5750

SEQUENCE LENGTH:60

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06825

SEQUENCE DESCRIPTION:

GATCCACCT TTGCTCCTGA CAACACTCAT TACACTAAAC ACCTCTTGA TTTGGTAAA 60

SEQ ID NO:5751

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06826

SEQUENCE DESCRIPTION:

GATCACTGGA TGGATAGCTC AGCCTGGGGC ATTTAGTGT TTCCCTGGTG ATAAATCCCC 60

AAGGCAGCTG GATTGGAGC TGGTGGCAAG TTGAAATNAT TAAAAATTGA TTTGTGTGGG 120

ACTGTCAAA 129

SEQ ID NO:5752

SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06827

SEQUENCE DESCRIPTION:

GATCTTTGGA CTGAGAATGT TTGGTAACAT AGTCAAGCAT TTGTTAAGCC AAGTGTTGAA 60

ATGTTCACTT TTTAACTTTA CAGTTTTTTT AATGAGCAAT TCTACATTTC TAAGAAAAAA 120

GATACTTCAT TTTATATAA GGTACAACT GCTTTATAA NCTGTATTCA CAATGTCAAA 180

SEQ ID NO:5753

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06828

SEQUENCE DESCRIPTION:

GATCTGGCCT TTTCTTAAAC AAATCNGTGC AAAANATGCA GGTGGATGTC CCTAGGTCTG 60

TTTTCAAAGA ACTTTTTCCA AGTNCCTGTT TTATTTATTA AGTGTCTACC NNGTAAATN 119

SEQ ID NO:5754

SEQUENCE LENGTH:67

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06829

SEQUENCE DESCRIPTION:

5 GATCTCCATA AATNACTTAG TCTTCTATGT ATAGCTATCA AGGAAATAAA ACCAATTTTG 60
CCACAAA 67

SEQ ID NO:5755

SEQUENCE LENGTH:323

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06830

SEQUENCE DESCRIPTION:

15 GATCAGAACA AAAACACCAC TCTTTAATGG GTCTTTTTCT TGGCTAGAAG TCTTTCCTCA 60
GTTTTTGTG ACTATCATACT GCTGATTTGT GGGTATGGA AGGGGGCTAG AGATAACGTT 120
TCTCTGTACT TTGGTAAAGN ATGAAGGAGT CAGAGAGGGA ACAGAAAAAG TGAGAGAGTG 180
GCCTGCTGAA ATAATAGCCT GCCTCTAAAA GTTGTGACCA GAAAGTATGA TTCATTGGG 240
20 CCCAGNGGGN GTAANNTATG TTTTNCATN TACCTCCCAT AGNACANGGT GTTNGGAGGG 300
NNGGAGTGAG TGTNNTAGAN GGN 323

SEQ ID NO:5756

SEQUENCE LENGTH:274

25 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06831

SEQUENCE DESCRIPTION:

30 GATCAGGTGT CTATAACATT TTTAATTCTC TCTGGAAACA GACTCAGGT TCTTTGGACC 60
AAATCCAAAA GAACACATAG CTGTAACACA GCTGTAGTTG ACTAGAATGC TCTGTATACT 120
TTATATTTAA AANTGCTTTG CATTTCTNCC AGTGCAATGA ANTTTCATATG GTGTCCCACC 180
TTATTTAATG ATGGTACANT TTAATACTT AGTCAACTGC TGTNGAAAGT TTTCTCTATG 240
ANAGTNANGC TGTTTGAAGA ATTNANGNGN TTNN 274

35 SEQ ID NO:5757

SEQUENCE LENGTH:344

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40 CLONE:HUMGS06832

SEQUENCE DESCRIPTION:

45 GATCCGCCCA CCTCGGCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CTGAGCCCAG 60
NCTGTATCCA TGTNTTCTGC ATGTTGATTC AACCAGCTAC ACATGGACAT TGTAGTTAGG 120
CCTATGATGA TTGTGTCTGT TCTGAAGATG TACATACCTT TTCTTCTATC ATTATTCCCT 180
AAACANTAGA GTATAACAAC TATTTACACA GCATTACAT TGTATTGGGT NTTNTANGTA 240
ATCTAAAGAT GGTTTAAAGN ATNCAAGAGG GTATGCATAG GNTATATGCG AATACCACCT 300
CATTTTANAT NGNTGACTTG NGCNTCGANN ATGAGGGGAT NTGN 344

50 SEQ ID NO:5758

55

SEQUENCE LENGTH:329

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06833

SEQUENCE DESCRIPTION:

GATCATGATA CAATTATTTT ATTAAGTCAT GGTAAATAAC AAATGAATCC AGACTTGTCT 60
 AACAGATTTT CCATCAACAA ATATTGTTAT GTGCAAAAAGT ATTGCCTATG TTGTTTTACA 120
 CACCACTGCA TTAAC TAGAA CTGCTGAGAG GACTGTATAT ATGATTTTAA ACCTAAGTTG 180
 ATTTTTTTC TCACTCTTGA AAGGAGTACT TCTTTGTGAA AGCAGTTCTT ACAGCTTTGT 240
 TTTCAACCAG CTA AAAATGT TTTGTATATN ACTCTAACCT GTTGTCTCC ACATTCTGTT 300
 GGTNCTGATT GNTGCTGTNT NCTGGTTN 329

SEQ ID NO:5759

SEQUENCE LENGTH:239

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06834

SEQUENCE DESCRIPTION:

GATCTATCCC TGCGGCCTCC ACACCTGAAC TTGCCTAACT AACTGGCAGG GGAGACAGGA 60
 GCCTAGCGGA NCCAGCCTGG GAGCCCAGAG GGTGGCAAGA ACAGTGGGCG TTGGGAGCCT 120
 AGCTNCTGCC ACATGGAGCC CCCTCTGNCG GTCGGGCAGC CAGCAGAGGG TNNGTAGCCA 180
 AGNTGNTTGT NCTGGGGGCT GNCCNTGTGT ATTCACCACC AGGTAAATTA GACCATTNN 239

SEQ ID NO:5760

SEQUENCE LENGTH:143

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06835

SEQUENCE DESCRIPTION:

GATCAACTTT CTTCTGTGT GTGGCTCAGN AGTTCTTCTG CAGAGATGGC GCTATCTTTC 60
 CTCCTCCTGT GATGTCCTGC TCCCAACCAT TTGTACTCTT CATTACAAAA GAAATAAAAA 120
 TATTAACGTT CACTATGCTG AAA 143

SEQ ID NO:5761

SEQUENCE LENGTH:52

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06836

SEQUENCE DESCRIPTION:

GATCGCATCC CACAATGCGA GAATAATAAA ATAAAATTGG ATATTGAGA AA 52

SEQ ID NO:5762

SEQUENCE LENGTH:359

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06837

SEQUENCE DESCRIPTION:

5 GATCCTCCCG TNCAGCCTC CTGAGTAGCT GGGATTACAG GCGCACACCA CCAATGCCCC 60
 GCTAGTTTT GTNTTTTNA TAGAGACGGG GTCTGCCAT GTCATTGAGG TTGGTCTTGA 120
 ACTCCTGGGC TCAAGCAGTC TGCCTGCCTT GGNITCCCAG TGCTGGGATT ACAGGCGTGA 180
 GCACCGTGCC CGGCTAAAAA GTATTTTNA GTTCTGCATA TNGCTTATTT CACTTAACAC 240
 TATATTAGAG NTTGTTTAT ANCANTACAT ATAGATATGC TTATCCTTGN TTGACAGTNG 300
 10 CATAATTNTT CCANTAAAAA TTGGTTGTAT CNAGGGGCAN TTAACCCAGT TACTTAGNN 359

SEQ ID NO:5763

SEQUENCE LENGTH:308

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS06838

SEQUENCE DESCRIPTION:

20 GATCATNAAG GACATTCGCA ATCTGGAGGA CATCAGGAAG ACCTTACCAT CTGGCTGCTT 60
 CAACACCCCG TCCATTGAAA AGCCCTAGTC TCITTAGGGC TGAAGGCAG CATCCCTCTG 120
 ACAGGGGGGC AGTTGTGAGG CCACAGAGTG CCTTGACACA AAGATTACAT TTTTCAGACC 180
 CCCACTCCTC TGCTGCTGTC CATCACTGTC CTTTTTNAAC CAGGAAAAGT CACAGAGTTT 240
 AAAGAGANGC AAATTAANCA TCCTGANTCG GGNACANAGG GTTTTATCTA ANANNNGGTN 300
 GNNNGTGN 308

25 SEQ ID NO:5764

SEQUENCE LENGTH:91

SEQUENCE TYPE:nucleic acid

30 TOPOLOGY:linear

CLONE:HUMGS06839

SEQUENCE DESCRIPTION:

35 GATCATAAAT ATTAATAATN AAAACTGAGA AACTATTAC AATGCATTCC TTATAAATAA 60
 ATGCTACATT TAGTAACTCA TTTCACCCAA A 91

SEQ ID NO:5765

SEQUENCE LENGTH:320

SEQUENCE TYPE:nucleic acid

40 TOPOLOGY:linear

CLONE:HUMGS06840

SEQUENCE DESCRIPTION:

45 GATCAGCACA AGTAACAGAA AATNAGCCTG ACGGTGGCTT AAGCAATGGG AATGTTTATC 60
 TCACATAGCA AAAAGTCTGT AAATAGATGG TTCTAGAGTT GGGTGAAGC CAAAATGTCA 120
 TCAGGATTTC CTGGGAACCG TCTGCTTTGC CATCCTCAGT ATTGCAGAAAT GGCTGCTCCT 180
 GCGCCAAGCA TCATTCTGCA AATNATGGTG TCCACAGCCA GAGTGGACAG TAGTACAGGN 240
 GCCTTCTCAT TCTGCCCTTA TCCGGGANTA ACCGTCAGCN GCTCCAGCAA CCTNCCCCT 300
 GTCTNTTTAT AGNGTGGGNN 320

50 SEQ ID NO:5766

55

SEQUENCE LENGTH:320

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06841

SEQUENCE DESCRIPTION:

GATCCCACTC TGATTGCATC CATTCTCTG AAAGACTTGT TTGTNCTGCT TCTCTTCATA 60
 TAACTGAGCT GGCCTTATCC TTGGCATCCC CCTAAACAAA CAAGAGGTGA CCACCTTATT 120
 GTGAGGTTCC ATCCAGCCAA GTTATGTGG CCTATTGTCT CAGGACTCTC ATCACTCAGA 180
 AGNCTGCCTC TGATTTACCC TACAGCTTCA GGGCCAGCTG CCCCCAGTC TTTGGGTGGT 240
 GCTGTTCTTT TCTGGTGGAT TTAATGCTGA CTCACTGGTA CAAACAGCTG TTGANGCTCA 300
 GAGCTGGAGG TGAGCTTCNN 320

SEQ ID NO:5767

SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06842

SEQUENCE DESCRIPTION:

GATCCAGTGA CAATNTGCC CCTGCCAGCC TGNGTGTCTG CACTCATCAT TCATTCATCC 60
 ATNCTAGAGC CAGGTCTCTG CNTCCAGAC GCGGCGGGNG CAATGCTCCT N 111

SEQ ID NO:5768

SEQUENCE LENGTH:256

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06843

SEQUENCE DESCRIPTION:

GATCATTCTC TCTGAGGGCA GNTGNGGCGC AGGNAAATAG TCTTGGNAAT GTTAAATATG 60
 ATGGGTAAAT TAAAAGTTT ACAACATTCT ACCTAATATT TTNCTTTTAA CATACTTTT 120
 CTGTTCTATT GTATTATGGT GTCCGAAAGC TAAATAACGN CTAGGNAAAA TTTTTTTAAA 180
 AAAAGNAAAA TCAGTTTAAT GTGGGNAGTA CTAAAGTGGT ATTATATTN NCATTTTCAC 240
 GTATAGTGCA TANAGN 256

SEQ ID NO:5769

SEQUENCE LENGTH:163

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06844

SEQUENCE DESCRIPTION:

GATCGTGTTC ACAGAGGACT TCTTTAAAGT GTCACATTTT TAAATGTAA ACATATTTT 60
 AATGCATACT TAAGTAATAT TTAAGAACT AAACAAAATA ATGATACANT TGCAGTGTG 120
 TGCTTGTTGT CAATGACAAA AATAAAACCA TTTTGGTGGT AAA 163

SEQ ID NO:5770

SEQUENCE LENGTH:253

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06845

SEQUENCE DESCRIPTION:

GATCTCCAAG AAGTGACTCT AGCAGAAGAT TTTATGGTGA TAAGCATNCC AATCANGAAA 60
 TGAAACCAGT GTTCCTGAGT GCACACTGAC ATGTCTGTGA ATATGTTACT GAACCTATAG 120
 TCCAGTTTTT TNATNTCTTG TTTTAGTCTG AAATNATTG GGGCCTAATA ATCCTAAAAN 180
 GAATGGAGCT GCATTGATGA ATTGGCTCAG TATTTAANGG GAGCAAACCT NTNGATAATA 240
 NNTCTTTTNA GGN 253

SEQ ID NO:5771

SEQUENCE LENGTH:137

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06846

SEQUENCE DESCRIPTION:

GATCTGAAAT ACTGACAGNG TTCCCCAAAG TTAGATATTA ACACAGCTTT TNACNTCTCT 60
 TATGAGAACT TTAAGTAAA TATACCTTTA TCATAGAAAT GAGATATCCA ATACCTNATG 120
 GNGACTACAA AAAGGNN 137

SEQ ID NO:5772

SEQUENCE LENGTH:371

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06848

SEQUENCE DESCRIPTION:

GATCCCAAG TTCAGCCAGC CTGGGGTCCA GAACTCAAGA GTCCGCCTGC TTGGAGCTGG 60
 ACCCAGCGGC CCANAGTCTA GCCAGCTTGG CTCCAATAGG AGCTCAGTGG CCCTAAGNAG 120
 ATGGGCCTGG GGTGGGGGCT TATNAGTTGG TGCTAGAGCC AGGGCCATCT GGAATATGCT 180
 CCATCCCAAG GGCCAAAGGT CAGGGGCCGG GTCCACTCTT TCCCTAGGCT GAGCACCTCT 240
 AGGCCCTCTA GGTGGGGAA GNAACTGGA ACCCATGGCA ATAATAGGAG GGTGTCCAGG 300
 CTTGGGNCCT TNCCTGGTN CTCCNAGTGT TTTGNTNGGG TAATAANTTG GANCTATGGG 360
 CTCTNAATTG N 371

SEQ ID NO:5773

SEQUENCE LENGTH:131

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06850

SEQUENCE DESCRIPTION:

GATCGCACAC TACGCTCCAG CTTAGGTGAC AGAGTGAGAC TCCATCTCAA CAACAACAAC 60
 AACAAAAAAC CAAAAAACT ATATTTTAA TCATGTTGG TAGCTTGAAA ANTAAATNCT 120
 TTCTGCCTAA A 131

SEQ ID NO:5774

SEQUENCE LENGTH:254

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06851

SEQUENCE DESCRIPTION:

GATCTGGAAA ANCTGCTGAC AGAGTGGCCA GACACAATAC CACTGTCTTT GGCTCTGGGG 60
 NCAGTTGGCA TGCCAGGCCT GACTGCCTAC TTTGGCCTAC TTNAATCTG TGGTGTNAAG 120
 GGTGGAGAAA CAGTGATGGT TAATGCAGCA GCTGGAGCTG TGGGCTCAGT CGTGGGGCAG 180
 ATTGCAAAGC TCAAGGNCCTG CAAAGTTNTT GGNGCAGTAG GGTCTNNTGN AAAGGNTGCC 240
 TACCTTNAAG AGGN 254

SEQ ID NO:5775

SEQUENCE LENGTH:346

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06852

SEQUENCE DESCRIPTION:

GATCCTGGTG CTATGGTTTG AATGTCCCCA CCAAACTCA TGTGAAATT GAATTGCCAT 60
 TGTTTAACAG TATAAGGGGT GACTGGGCCA TGTGAGTCT GCTCTCATGA ATGGATTAAT 120
 GCCATTGTCA TGGAGTAGGT TAGTTTTCTC TGGCGTGGGC TCCTGGCAAA AGGATGAGTT 180
 CTGCTGCCAT GCTGTCTGTN TCATGCACCT GCTCACCATG TGAGCCTTCT GCNTCACACA 240
 GGATGACCCT CACCAGATAC TTGCACCATG CTCTNGGGAC TTTCCCAAGT NTCCAGAGCN 300
 GTGAGCCAAA TNAACTNGCT NTNCTTTATA AAANANAAAN ANAGTN 346

SEQ ID NO:5776

SEQUENCE LENGTH:336

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06854

SEQUENCE DESCRIPTION:

GATCCAGGGT GNCTAAAGAA TAGAAGTAGA GTTCCACCCA GGGCCAGAGG GAACAATCTG 60
 GGATTCAGAC ACAGCAGTGG TGCCAACGTG AATCTACCTC GTNCTAGAGT CTGAGTAGCC 120
 TAGTCTATCA CCCAACACAG ATAAGACTGG ACAGGGGCTC CCAGGAACCA ACATCTAAGN 180
 GGGGAGTTTG GAGAGGGGCT AAAAGAAAGC AGGTAAAGCC CCAANTGTAA CTGATTGATG 240
 ACCAGGGATA ACTATTACT AGTGCTTTT TGGNTTATT GTAACTCTGT NACTTTCCCA 300
 GTATTGTGNA ATTNTNNNC TTCTGNNTCT CCTGTN 336

SEQ ID NO:5777

SEQUENCE LENGTH:65

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06855

SEQUENCE DESCRIPTION:

GATCTATTTA GGTGAAATA GTTGTGGATG TACTAAGAGT AATGAAATAA AATTATAGCT 60
 TCAA 65

SEQ ID NO:5778

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06856

SEQUENCE DESCRIPTION:

GATCTTGNGA CGAACTGAGC CACGAGCGTG GCTTTAAGGG CCGTCCGAAC GCTGCAGGCC 60
GGCCAGGTCC CTGGGCGTCC AGGCCTGGCC TACGCACCAC TTTNTCCCTT AGCGTTTAAA 120
GGNNNNN 127

SEQ ID NO:5779

SEQUENCE LENGTH:118

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06857

SEQUENCE DESCRIPTION:

GATCCTATGT GAAAAGAAAA GTGAAGCAAC TGAATCTTCA GCATGTNCTC ATCGGCGGAC 60
CTTCTTGTTG AATGTAACT GTGCCATGTT ATTAATAAAT GTGAATAAG CTTCCAAA 118

SEQ ID NO:5780

SEQUENCE LENGTH:259

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06858

SEQUENCE DESCRIPTION:

GATCTAGTAT AAACCTCACT TTACTCTTTT GGAATAAAGT GATTGGNTAG GACCCCATG 60
CCAGGAATAA GANTCAATAT GCTGCTGAGA AGGAACCCAT GGTGTTGANG ATGTTGAAAA 120
GACANCACAG TCAGTAACGT GGAGAAATGG CCTGGNTTCA ANTCTTGGCT CTGACACTTG 180
GTAGGTATGA GACCTTGGAG ANGTTTCTGN NCCTCTCCAT GCTTCATTTT TNTGANGGTT 240
TATTGTGTGG TTAAANTTN 259

SEQ ID NO:5781

SEQUENCE LENGTH:171

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06859

SEQUENCE DESCRIPTION:

GATCCTNAGC GGAGGTTAAG ATATTAAGTN ATTTCCCAT TGAATCAGAA TTATATTGAT 60
TCTGTGCAAT CAAAACAAAA GGCAGANTAG AATGCTGAGA TTGGTTAAGT TTGCAATNAC 120
CATCTTGAAC CACAGATTTC TNCTATGTGT CATCAAAACA TCTAGTNNNG N 171

SEQ ID NO:5782

SEQUENCE LENGTH:114

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06863

SEQUENCE DESCRIPTION:

5 GATCCTCAGA CCCTGCACAG CCCTGANTGG CTTACATCT NTTGGTCAGT GTCTTCATTC 60
TCCCCAGTCA GGGACCTNGG ATGTTTGTTA CTNCCAGAAG CCCTTNTCTA CCCN 114

SEQ ID NO:5783

SEQUENCE LENGTH:55

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06864

SEQUENCE DESCRIPTION:

15 GATCACACTG TGAAGATACA CAGAGTCAAT AAATGTGCAC TGTAATGGAC TTAAG 55

SEQ ID NO:5784

SEQUENCE LENGTH:298

SEQUENCE TYPE:nucleic acid

20 TOPOLOGY:linear

CLONE:HUMGS06865

SEQUENCE DESCRIPTION:

25 GATCCTGGAG AGCTCCCAGA CTTTGCTCAG CGTTCTCANG AGGNAAGCTG GGAACCTGAC 60
CAAGGCTACA GCCCCAGACC AGAAAAGTAG CGGCGGCAGG GACAGCTGAC CAGACCACGG 120
GCAGGGCCTG CNTCCNTNTG CCCCTCAGCT CAGCCCCAGC AAGTGTGTGC TCAGAGCATC 180
TTTGTTCCTC ACGGTAGCAG CTACCTTCCC TCACTGTCTC AGGTGCCGAG AGGGGCAGGT 240
GCCAGCCTNC ACTGGCATCA NTGACAAGNC CANGGCANGN NCCACCNGNG GGGTCCTN 298

30 SEQ ID NO:5785

SEQUENCE LENGTH:117

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35 CLONE:HUMGS06866

SEQUENCE DESCRIPTION:

GATCAATTGA TTGTTTAAAC ATGGAATTTT GAGAAATATT TGGGTAGAAA AAAAAGTAGT 60
TTTAAAAGAN GAGAATCCAA CCATTAAAC ATCAAAANNT GANATTNTTT GTAAATN 117

40 SEQ ID NO:5786

SEQUENCE LENGTH:358

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

45 CLONE:HUMGS06869

SEQUENCE DESCRIPTION:

50 GATCAGCATG TGGACTGCAC TGTTTACTTT TGGTTGGACT GGGACAATTT GGGGAATATC 60
TACTATGTTT ATTCTTCAAG AACCCATCAT CCCATTAGAT GGAGAAACCT GGAGTTATCT 120
CATTGCTATA TGTGTCTGTC TCACTGCAGC ATTCTTAGGA GTTTATTATG CCTTGGNCAA 180
ATCCATCCA GCTTTGGTTA GCACAGTACA ACATTTGGAG ATTGTGGTAG CTATGGTCTT 240

55

GCAGCTTCTN GTGCTGCACA TATTCCTAG CATCTATGAT GTTTTGGAG GGGTAATCAT 300
TATGATTAGT GTTTTNTCC TTGCTGGCTA TAACTTTAC TGGAGGAATT TAAGAAGN 358

5 SEQ ID NO:5787

SEQUENCE LENGTH:128

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10 CLONE:HUMGS06870

SEQUENCE DESCRIPTION:

GATCTATGGG TAATTTTAAA TTTGCTGT CAAGCTTAAN AGGGACTTGA CAACAGCTAG 60
GATNGAAATN ATTTCAACAC TTAATATGC TTACTTTGTG CCGGACGCTG TTCTAAGNCT 120
TTNACAAN 128

15 SEQ ID NO:5788

SEQUENCE LENGTH:339

SEQUENCE TYPE:nucleic acid

20 TOPOLOGY:linear

CLONE:HUMGS06871

SEQUENCE DESCRIPTION:

GATCCACCTA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC AGTGCCCGGC 60
CTGTATTGG TGATATTTA AAAAATTCTA CTTTGACCTT AAGTGCTTCA AGAATTGTGT 120
25 TCAGTTAGTA GTCCTNTTGG TAAGACTAAC TTTCATATGC TATCTTTGCT CCATGAGCTA 180
TCATAGTGCT GTTTTCTTC ATTACCCGTA AGAGTGGCTC TATCACAGCA TTTACTGTTA 240
AGGGCTACAG TTAGACCTCT TGTTAACTCT ACTTNATTT GTGATGGCTG TGTTCACAC 300
TACCTTGATT TATAAATGTA NGTAATGTNG TTAATNGN 339

30 SEQ ID NO:5789

SEQUENCE LENGTH:343

SEQUENCE TYPE:nucleic acid

35 TOPOLOGY:linear

CLONE:HUMGS06872

SEQUENCE DESCRIPTION:

GATCCTNTGT ATAACATCGG GGCCTTGCTC AGGGGCTGTT GCGTGGTTGC CCTGCATTCT 60
CTCCGNCGCA CCGCCTCCG TATCAAAACC TAAATAGAAG TTGTTGTTAC CGTGTGCCAA 120
TGTGTCCCAT GTGGTTGTG CCAGGTAGAG AACAGGAAG TCAATCATCT GTNACAGTCT 180
40 CTATTCTGTC GTTTTCTCC TTGGTATTN ATTGCACTA TATTNAGGTG AAGCCTGTTT 240
ACTGTTTAAA NCCGGAGTNT TCTCAAANG GCATGGNGAC CTGGTTCCAG TAAATGTCCC 300
ANCAGTGGGG GTTTTAGAAN GCATNNTTCA NTGACCNTNG NAN 343

45 SEQ ID NO:5790

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

50 CLONE:HUMGS06873

SEQUENCE DESCRIPTION:

GATCATTATG TAGTTTCTGG ATTAACAAAAA TTTGTGTGTG AAGTTGCTTT GTAAAGTGCA 60
 TGTGGAATTA ATGGGACAGT GTGCCCTTTG TGTTAGATGT TAGAGCAAAA GAAAGGGCTT 120
 ATAGTGTTAG TATTGGAGCA CTTTGAAGAT AGATATTTNC AGAAAAGATG TAGGATTTAA 180
 NAGTTAAATT TTAANTTTTA GAANANGATA TGATGGCAAT TGGNAATAGT CACAATGNNG 240
 TTCTTCATCC AGTNGGTGTT TAACCAGTGT TNATTTTGCC NCTGGTAATG TGGTNACCTG 300
 TGNGTGNTTT CCANTAGATG NGTTATGGGN 330

SEQ ID NO:5791
 SEQUENCE LENGTH:265
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06874

SEQUENCE DESCRIPTION:
 GATCACCACA AAGTCTGGCT CAGTGACTAT GGCTTTGCAA AACTAAACA TTCCTGTCTC 60
 AAGTCCTGTA GATGGCTTGA AATAGTATAC ATAAGCATGC CTTATAAACA TCTTCAGTCT 120
 TTATCAACTC TTTGGAGATT CAGCCATTCT TTTTGTACT TTAGGGAATT AAATCANNNN 180
 ATAATGTATA AATCTGAGCA TGGCCGATGG CAGAAGANAT TTTGTCATAC GTTTTAAAG 240
 ANNTAAGANT GTATTATGTT TAAA 265

SEQ ID NO:5792
 SEQUENCE LENGTH:191
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06875

SEQUENCE DESCRIPTION:
 GATCAGAAAC CCTCATTTAA TATAGATTAT TTTGAAATN AAAAAATTG TAACAAGGTG 60
 GCTTCTTAC CCACCTAAA ATGTAAATAA AACATGCAAG CTTGAGTGC TCGAGTTCTA 120
 TAGTGTACC TAAATCGTAT GTGTATGATA CATAAGGTTA TGTATGCCCT GTAGCCGTTN 180
 NNNNNNTNT N 191

SEQ ID NO:5793
 SEQUENCE LENGTH:204
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06876

SEQUENCE DESCRIPTION:
 GATCTTGTCT TTATCTACTT TCTTCAGTAA ACTCTGGAAG AAAAAACTT CCTGGAAGTT 60
 TGGGCAATCA TTTGCCATTA TTTNCCTTTC CTTGAATTTC TTGATATCAT GAATACTGCT 120
 GTAGTATGGG ACATTATGTA TTTNGGTAAG CAGACTTCTC TNCTGTATTT GTNTTTNGTT 180
 AAACAGAATG ACAAGTTCCT TAAA 204

SEQ ID NO:5794
 SEQUENCE LENGTH:237
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS06878

SEQUENCE DESCRIPTION:

5 GATCCCAACC CAGGCCTTGC CCCTGCCCTC CCACGAATGG TTAATATATA TGTAGATATA 60
 TATTTNAGCA GTGACATTCC CAGAGAGCCC CAGAGCTCTC AAGTCCTTN NTGTCAGGNT 120
 GGGGGGTCA GCCTGTCTG TCACCTCTNA GGTGCCTGCT GGCATNCTCT CCCNCATGCT 180
 TACTAATACA TNCCTTCCC CATAGCCATC AAAACTGGAC CAACTGGNCN NTTCTN 237

SEQ ID NO:5795

SEQUENCE LENGTH:214

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06879

15 SEQUENCE DESCRIPTION:

20 GATCAAAAGC CAAGCTCTGT CCCCGTCAGC ACGTCACCCT CCCTCACTGT AATCCCTGAC 60
 TGTTTTCTCT AAATGAAGAA TTATTTAGAG AATATAANTT AGAAGGGCCG CCACGTCAGA 120
 TTTCCTGAN TGGGAGCAGT CTTTCCAGCC TCGAAAAATG TTAAANCAAT ATGCAGATGA 180
 CCTAGCACAA ATAANGANTG CTAGCAACCG CAAA 214

SEQ ID NO:5796

SEQUENCE LENGTH:187

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06880

SEQUENCE DESCRIPTION:

30 GATCAAGTGA TACTAGGAAT ATAGGTACAA GTAAGACTGT CATTTCATT GTTTTCTCTT 60
 TGGACTGATT CTTTNCATTA TAACAGCGTT GTGAAGTAGA GGTGGGATTA GGAACNTCT 120
 GCTGTAATCA ACTCCCTNGC TGCCCAACA CCAGCCTNAT ACACAACACC ANCAGGTCCN 180
 GCNTNGN 187

SEQ ID NO:5797

SEQUENCE LENGTH:247

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06882

SEQUENCE DESCRIPTION:

40 GATCTTNAG TGCTTTGGGG ATGGGGTGGG CTGGGGTGGA TGGATGGGCA ACAGTGACTT 60
 TAATTACCT TGCTGCTCTG CATTTCAG TTTATNCTTT TGTTCCTTT ATCTGACTGA 120
 CTCTGTCAA CAAGTGTCAG AGTTGTGTGT TAAAAATGT TTAACAAAA ANNTGTTGTA 180
 ATGACACAAA GCCTTATGAN ANTNTTATG GAGTTCAATA AAAGANGTAA GAGGTCAANC 240
 CNNAGGN 247

SEQ ID NO:5798

SEQUENCE LENGTH:106

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06883

SEQUENCE DESCRIPTION:

GATCTTCCCA ATATGAACAA ATATACTATG TATATNGTGT GTATTCTAG AAATCAATGG 60
 CAGCTGCTGA TGGNGTTGTA ATTAGAANTC TATATAGNNT ATAGAN 106

SEQ ID NO:5799

SEQUENCE LENGTH:214

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06884

SEQUENCE DESCRIPTION:

GATCAGGACC TACGTTAAGG TGGATTTTNA ATTATTTAAA ATTCTGATT TGTTTTATTT 60
 TTAATTAATC TTTGGGGGAA GGATGGGAGG GGGGTGAGGG TTGAAGAAGT AAACATTGTA 120
 CCTATTGGAT ACAATGTTTA ATATTTGTGT GATGGGCACA CTGGAAGCCC AAACCTCACT 180
 ATTACACAGT ACATTCATGT AACAAGCCTG CAAA 214

SEQ ID NO:5800

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06885

SEQUENCE DESCRIPTION:

GATCCTTAAT GGTGGCCAGA GCTACCATGC AGTGCAAAAA TAAATTAAGT GAAAATGTAT 60
 TATTGAGATT AACAGTGCAA GGCCAATACA TTTTATAAAT CTGTCAGTAT CTTTTTAAA 119

SEQ ID NO:5801

SEQUENCE LENGTH:339

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06886

SEQUENCE DESCRIPTION:

GATCCTCAGT GAAGTGCATT CGGAATGAGG ATGGAACCTG GTTAACACCA AATGAATTTG 60
 AAGTCGAAGG AAAAGGAAGG AACGCAAGA ACTGGAACG GAATATACGT TGTGAAGGAA 120
 CGACCCTAGG AGAGCTGCTN AAGAGTGGAC TTTTGCTCTG TCCTCCAAGA NTAANTCTCA 180
 AGAGAGAGTT AAATAGCAAG TGAATTTCTA CTACCCTCTC AGTCACCATG TTGCAGACTT 240
 TCCCTGTCTG GAGGCTCACC TTAGAGCTTC TGAAGTTTCC AAGCTCTGAG GTCAACCTNC 300
 ACATTTTGGG CAATGGCATC TTCAAAAACA ATTAATTTN 339

SEQ ID NO:5802

SEQUENCE LENGTH:381

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06888

SEQUENCE DESCRIPTION:

GATCTCCAAG CGAACTCAGC CTCCTCCCAA GCTCCTGTG GGTCTAGCC ACAAGCTCTC 60

5 CAACAATTAC TATTGCACTC GCGATGGCCG NCGGGAATCT GTGCCCCCTT GCATCATCAT 120
 GTCGTCGCAG AAGGCGCTGG TGTCAGGCAA GCCAGCAGAG AGCTCTGCTG TAGCTGCCAC 180
 TGAGAAGAAG GCGGTGACTC CAGCTCCTNC CATAAAGAGG TGGGAGCTGT CCTCGGACCA 240
 GCCTTACCTG TGACATTNCA CCNTNACGNC CACCCGNCTA CTTTGCCTN CTTTGGATTT 300
 NCTTCAGGGN GAATNTTGAC CTAATTGTAT GACAATTAC GTAGGGGCTC AGGTATTAC 360
 TTCTGAGGTN TTACTTTTGG N 381

10 SEQ ID NO:5803
 SEQUENCE LENGTH:150
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06889
 15 SEQUENCE DESCRIPTION:
 GATCTACACA TGTTGCCTTG CATTGTGGT AATCTACACC AATGGAAACA TGTACTACAG 60
 CTATATTGA TTATGIATGG ATATATTGA AATAGTATAC ATTGTCTTGA TGTTTTCTCT 120
 GTAATGTAAG TAAACTATTT ATATCACAAA 150

20 SEQ ID NO:5804
 SEQUENCE LENGTH:276
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 25 CLONE:HUMGS06890
 SEQUENCE DESCRIPTION:
 GATCCTAAGC AAAATCGGAG ACTTGAACAA AGTTGTTC TGGCTGTNTG CCCTCCATT 60
 TTCTGTTCTC TTCITTCTCC CTGGAGATGA NAGAACACAG AATCANATTN CCAACCTCTC 120
 TCTCCNATGN ACTCTCTCAT CCCCAGCCC AGCCACATTT ACACATAGGG CAGACACATC 180
 30 TCACACAAAG GAAGTACCCC TAAAGACCTC ACATAAATAA AACTAGCAA ANTTCAAGTT 240
 GNNTCTTGGC AAANGTAGTN NTGGGTATGT NAGTCN 276

35 SEQ ID NO:5805
 SEQUENCE LENGTH:219
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06891
 SEQUENCE DESCRIPTION:
 40 GATCANGTTC NGGGCTCTNT CAGCCGCCAC CTCTGGGAAA GAGAAAAGNT TTGGGTCCAC 60
 TGAACATCAT GTTTGTAGAC GCTGACAGGT GGGTCCTAA TNAGAGCCAA CACATGCTCA 120
 CTGCCAGCNC CTGCCCTGAG TACTGGGAAG TTTCTCCTGG AAGCCCTTGT GAGATGGCTC 180
 NGNNGGCTGG TATCCCGACT TGGAAGATGA GGAACTNN 219

45 SEQ ID NO:5806
 SEQUENCE LENGTH:191
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 50 CLONE:HUMGS06893

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SEQUENCE DESCRIPTION:

GATCAGTTTT NTGCTGAAGG CACCTACTCA GTATCTTTTC CTCCTTATCA CTCTGCATTG 60
 GTGAATTTAN TCCTCTCCTT TGTGTTCAAC TTTTGTNTGC TTTTAAAAATC AGCTTTATTC 120
 TAAGCAAATC TGTGTCTACT TTAAAAAACT GGAAATGGAA AAAAAATTAA ATCTNNGCCA 180
 GGTCTCTCAA A 191

SEQ ID NO:5807

SEQUENCE LENGTH:206

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06894

SEQUENCE DESCRIPTION:

GATCTGCAGC TTCGCGGGGA CAGAGATGTA ACCCAACTCG TTCACGGATG TNCCGCGCGC 60
 CGTGTACCCG GCTGCGGGCC AGGGGTACTC GGAAGGCGCG GGCAGGAGCC TNGCGAGGAT 120
 GCACCTTCCC CTGCNTTGA AAGGTAGAAC TGGGGAGTGC GGGAGGNTGA AGGTGGCCCG 180
 GAAAAGAACA CCTNTTCGCA ACCAAA 206

SEQ ID NO:5808

SEQUENCE LENGTH:55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06895

SEQUENCE DESCRIPTION:

GATCTAAATA TGTATTTCAT AATNTTCCCA TAATAAATTA TATAAGGTGG CTAAA 55

SEQ ID NO:5809

SEQUENCE LENGTH:197

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06896

SEQUENCE DESCRIPTION:

GATCTGGTTT NATTCCTGTA ATTCAGCCAC CTGATTTGCT TGAGGGGGNG GNATANTATG 60
 TGGGTTTTTG TACAAACATG TTTCTCAGTG TGTGTTATT TTGGAAAAAA TGAGGGGAGG 120
 GAGTTTTTGA AGAATGNGAG AAAATGANTG AAGAAGGCCT AATCNTCTCT CTTTTTCCAG 180
 TGGATTNAAT GGGNCCN 197

SEQ ID NO:5810

SEQUENCE LENGTH:344

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06897

SEQUENCE DESCRIPTION:

GATCCAATGA TTTAATTTT GGAAGAAAA ATCCAGTGAT TAAAGTCATG CAAGGAGATG 60
 GCCTGGGGCT TGCTAAAAGT CAGGTTGCAG TTTCCATTGC ATTCAAGAAA ATCAGAAAAA 120
 TAAATACAAC TTTTAGAAGA AACTGAGTTT TCTCCCATTC ATGTTTAGCT ATTGGGGGGT 180

CTCATACTTC TGGACTTGCT TAGACCTATG CTATCTAATA TGGTNGCCTC TGCCCATCCA 240
 TATGTGGCCA CTGGGAACT TGGAAATGTN ACTAGTTTGG AATTAAGGTG TGCTNGTAAC 300
 TAAATNCAC CCTGNGGTNT CAAAGGCTNN AATAAANGNA NGGN 344

5

SEQ ID NO:5811

SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10

CLONE:HUMGS06898

SEQUENCE DESCRIPTION:

GATCTATCTC CCTGTTAGGT GTNCTTTTTC TCCTCTTTAG AAAGNAGCCA AGGNAACCAG 60
 GGTCTCTCA AAGTGGAAAA TACTGGAACT NATGTACTGN TATCATAATG N 111

15

SEQ ID NO:5812

SEQUENCE LENGTH:169

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06899

SEQUENCE DESCRIPTION:

GATCCATTGC TTTTAGACAG GACTGGGTTT TGCTGTCCAA TGATATACAN TAATAGTNCT 60
 TCTTACAGCT AAGCTGGCCC CAGCCTTGTC TTGATATTAA TACATGAANT NTTTATAATT 120
 GTCTCATTGT CTCATTAGA AACATCCANA TNTNCTGCT GTGNCTATN 169

25

SEQ ID NO:5813

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

30

TOPOLOGY:linear

CLONE:HUMGS06900

SEQUENCE DESCRIPTION:

GATCAGTAAC TTTATCTCTA TCCTTAATGA ACATTTGTTT TATTGGTGGC TGGAAATATT 60
 TCTATTGTAT TTCTGTGTAT ATNNTNAATA AAATAATTTT TGGCCTCTNA AA 112

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SEQ ID NO:5814

SEQUENCE LENGTH:271

SEQUENCE TYPE:nucleic acid

40

TOPOLOGY:linear

CLONE:HUMGS06901

SEQUENCE DESCRIPTION:

GATCAGCAGC TCGGAAGACT CAGATGCCGA AAACCTCGTCC TCCCGAGAGC TGGATGACAG 60
 CAGCAGTGAG TCCAGTGACC TCCANCTGGA AGGCCCCANC ACCCTCAGGG TCCTTTGACG 120
 AGAACCTTGC TGACCCCAA GCAGNAGACA GACCTCTGGT TTNNTTTGAC CTCAAGATNG 180
 ACAATGAAAG TGGGTTCTCC TGGGGCTACC NNNACCCNTT TCTAATTTAG TCTCTNGAGT 240
 CCCAAAAAGA AGTNCAGGCA GAGCCATCTN N 271

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SEQ ID NO:5815

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SEQUENCE LENGTH:317

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06902

SEQUENCE DESCRIPTION:

GATCATGAAA AGAAAAATNA ATGGCAGGAA AAAAGTTTGG TCCTTAATAT ACTTTGGCCT 60
 AGTNAATAA TGTGCTTTT TGGTGTGTTT TGTTCATCAC TACAAGATAA AAAGGAAACA 120
 TTACANCTCA AGGCTTTAAA AAGTTCATTT ATTGAAAATC ATATGTATAG CCTAGCATAAC 180
 GAATGTGCAG TTTTAAACAC ATAGCTTCAA GCCATTTCTG NAAGCATNCA CCGGGNGCTC 240
 TGCTCAGNTA GAGTCAGNCT CCNNGCTCCA GNCCGACTGC GTGCGGGGGA CCAGCGGCCG 300
 CGTTNNATGG NGGGNCN 317

SEQ ID NO:5816

SEQUENCE LENGTH:294

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06903

SEQUENCE DESCRIPTION:

GATCTAGGAG AGGCGGCTCT GAACGAGTAC CTGCGGGTCA AGACAGTGAC CTTGATTAC 60
 TGAAGAAAAG TCTTTNTGAG AAGAAAGTCC CTGCCCCTCC CTCGTGGCTG GGGTCCCCTC 120
 CCTCTTGAGC CTNGGTGCAC AGCANCTCCC ACCTGGGGGG CTAGTGGAAG CCCTCCTGCC 180
 TGCACACCAT GTCTGCATCT TGGACGNCCT CTGTCCAGTC AGAAGCAGCC CTTGGNTNNG 240
 GGTGAGNTGT GNCCCTTCCA GGGGGAATAA AGCTTCTGAA GAGAGACCGT CAAA 294

SEQ ID NO:5817

SEQUENCE LENGTH:263

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06904

SEQUENCE DESCRIPTION:

GATCAAAATC AATGGGAAGG TGCTGCCAAG GTGTCCTAAG CTTCTAGGAT AATATTNATN 60
 CTCTCAGGGT TTTGGAAC TGCCCAAAG TCATAGTTCT CAGTCCTGGG TGTGAGTCAG 120
 ANTACCTGT GGAGCCTGGC AAACCTTACA GACACCCTGG CTCCAGCCCT GGAGATTTTN 180
 ATTTANTGGA AATATCACTT AGAATTCTAT TGTAAGCAAT AAAAGTNTAT TCTCACTAAA 240
 CTTTCAAAAA NTNGNGTGN NNN 263

SEQ ID NO:5818

SEQUENCE LENGTH:199

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06906

SEQUENCE DESCRIPTION:

GATCTTTCCC NTTTGGATGT GCGTGTGTGT CTGCNTGTGC CATGTGCGTG GCACGCATAT 60
 GAAGTGTGTG TGCGTGTGAA CGGCTTTGGG TCCTGTGTGT TTTNCTGTGA GCTNCAGTGT 120
 TCTGTGGGTC TGTGGTATCT NACACTGTGG NCATTAATGT ACTTCTTGGG CATTTTAATA 180

AATTTTNNAA CAGTTCAAA

199

SEQ ID NO:5819

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06909

SEQUENCE DESCRIPTION:

GATCANAAAA CCTAAANTCC ATAGGNACCC NAAATCCTCA CAGTTACAGA GACACCAAGA 60
 AGANTCTGGA CAAATAGGAC TTGCTAAGGC CTCCACAGTT TATN 104

SEQ ID NO:5820

SEQUENCE LENGTH:343

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06910

SEQUENCE DESCRIPTION:

GATCGAACGG ACTNTAAATC CGCTCTTTAT CGAAAGCTAA GCAAGCTGTG GCTTTTTTCC 60
 AACTCCGTGT AACGATTCTA AGTGTAGTGT NGTAGGACCC CGACGGGTNT GGCAGCAACT 120
 GCCCTGGAGC CCCAGCCCTT GCTTCCATCT NTNCTGTGCG CCCACAGTA GACGTGCAGA 180
 CGTCCCTAAG AAGGTTCTTN AAGATGTTTA TTTTATATAG TCCTNTTTTA CTGGAAGACG 240
 TACGNATACT CCATCGATGT TGTATTTGGN GGGGGGTGNG GAATTCTTGT ACGCAGTTTT 300
 CNTTNNGCTT TACGAAGCCG GTNAANNACG CGTTTTGAAN TAN 343

SEQ ID NO:5821

SEQUENCE LENGTH:106

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06911

SEQUENCE DESCRIPTION:

GATCACTTGA GCCCAGGAGT TCAAGACCAG CCTGGGCAAC ATGGCTAATN AACACTAAGC 60
 ATAGTTTTAA TGTCTTTNAT ATTAAAGACT TTCTCAAATT CTAAA 106

SEQ ID NO:5822

SEQUENCE LENGTH:350

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06912

SEQUENCE DESCRIPTION:

GATCCATTCC AGCCACTCGG GGCTGACAGC GGCACCCCGT TCCAAAGTAA AAAGGGGTTT 60
 GGGGACCCGT TTAGTGGAAG AGACCCATTT GTCCCTCCT CTGCAGCTAA ACCTTCTAAG 120
 GCCTCTGCCT CGGGCTTTGC AGACTTCACC TCTGTAAGTT GAGTCCTCCG NCTCCGGGCC 180
 ACCCCACTCC CTTCCGCTTG CAGCTTCCCT GGGATTTTNG TNCCTTTTA AAGGCAAACC 240
 TCCCAGCTTC TTTAGCCTCT TGGTACCTNA CACTCTCTGT CCNTCGCGTT ATTNATTCTA 300
 CACTGCCACT TCTGTAAGAA AAACAGTTTN TCAATAAAAA AAANAGNTGN 350

EP 0 679 716 A1

SEQ ID NO:5823

SEQUENCE LENGTH:163

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06913

SEQUENCE DESCRIPTION:

GATCTCGTCT CTAAATAAAA TATACAAAAG AGTATTGGGA GGGGGTATGA AGAATGTATA 60
GGGCAATAAT TGAAATCTGT TGAAGCTGGG TACACAAAAG TNCATTATGT TGTTCCTCTA 120
CATTATATC TATTNTNAGT NNITTNATAT CTATTTTNAN TTN 163

SEQ ID NO:5824

SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06915

SEQUENCE DESCRIPTION:

GATCAGTGGT TTCCATTGTC AGGACTGGGC ATGGGGAAGT NTGGCTGTAC AAGAGGAGCC 60
CAAGGGAACCT CCTTGGTGGT GATGGAAGCTG CTCTGTATCT CAAATGTCTG TATCTTTAGA 120
AAGAANTCTA CATATGTNAT AACACTGCAT AGAAATATAT ACATGTACAC ACAAGTGAAA 180

SEQ ID NO:5825

SEQUENCE LENGTH:247

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06916

SEQUENCE DESCRIPTION:

GATCAGTGAA ATCCTAGGGT GCTCTATGAG ATTGTACTAG GCCTATNAAG AGTGGTAAGC 60
CAAAATAGGTC TCCATGGGAG ATACATTATG TAAATAAATA AACAATGGTT TGCTGGTTCC 120
TGTTGGTGTC TCCACAAGTA GGTAANCATG TTTAAAGGAA CCCGGGTTCT TAGATTTTNT 180
NAGACTTTTT AANCTCAAGG CTGNGCATAA GTNCTTGAAN ATAAANTGCT AATNCTTAAG 240
TGTCAAA 247

SEQ ID NO:5826

SEQUENCE LENGTH:169

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06917

SEQUENCE DESCRIPTION:

GATCAAGAAT TGCAAAAATG GAAAAAATTA ATGAAAAGGC ATCTGATAAA TGTGGACGGC 60
TCCAAATCAT GTCCTTAGAA AATCTTTCTA TTGAAAAGGA GACTAAATTG TAATGTGATT 120
CACAATGTAA CAATATAANN CTNNGTTTTT NTATAATTNT NTAANAGTN 169

SEQ ID NO:5827

SEQUENCE LENGTH:268

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06919

SEQUENCE DESCRIPTION:

GATCACCTCC GGGCACAGGA TGCAGGAAC TGTGACATT CAGGGATGTG ACCATAGAAT 60
 TCTNTCTGGA GGAGTGGGAG TTTCTNAACC CTGCTCAGCA GAGTTTGTAT AGGAAAGTNA 120
 TGCTAGAGAA CTACAGAAAC CTGGTCTCTN TGGGTCTTAC TGTTTCTAAG CCAGAACTGA 180
 TTAGCCGTCT GGAGCAAAGA CAGGAGCCCT GGAATGTGAA GAGACATGAG ACCATAGCCT 240
 GGGCGACAGA GCGAGACTCC GTNTCAAA 268

SEQ ID NO:5828

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06920

SEQUENCE DESCRIPTION:

GATCTGTGCC CAGAGACGGG ACTGGGAGGG CCCACTTCAG GGTTCCTCTC TCCCTCTAA 60
 GGCCGAAGAA GGGTCCTTCC CTCTCCCAA GACTTNGTGT CCTTCCCTC CACTCCTTCC 120
 TGCCACCTGC TGCTGCTGCT GCTGCTAATC TTCANGGCA CTNCTGCTG NCTTTAAGTC 180
 GCTGAGGGAA AAATAAATGA CAAATTGCTT GNGNCCAAA 219

SEQ ID NO:5829

SEQUENCE LENGTH:153

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06922

SEQUENCE DESCRIPTION:

GATCATAAGT NCTTCTATCT GCTGAGCTTT ATTTATTNAT TTTGGACAGA AAGTTTGGTG 60
 GGAAGGTTGC AATAAAATCA GAATCTCTCT TGTNTGAATT ATGCAGTTTA ACCCTGTCCA 120
 TGGNNNGGCT GTACTCTATT CTNACTGTAT TTN 153

SEQ ID NO:5830

SEQUENCE LENGTH:172

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06923

SEQUENCE DESCRIPTION:

GATCTTGTTT TNATTAATA TGCCAGTTTG TATTNCCTG CCTTGGGATT TTTTGTGTC 60
 CGCTGTACAG TATTCTAAGG GAAAAAGAAA AAGAAAGATG TGTAAGTAA CAGAGAGAGG 120
 TGCTATGGT GTAGAGACCT CTTCTAATA AAGAAATGAA AATATGTCTA AA 172

SEQ ID NO:5831

SEQUENCE LENGTH:96

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06927

SEQUENCE DESCRIPTION:

GATCCCAGGG AAGACGTCTC TCTCNGCATC CCAAGCCATN CAGCCCTTAT CGCTGTACCC 60
 AGTAAACCCT CAATAATAT CTTTNCAGC CAGAAA 96

SEQ ID NO:5832

SEQUENCE LENGTH:228

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06928

SEQUENCE DESCRIPTION:

GATCACTGTA TTAATTTTGG TTTATCTTGG CATATATNGT TCAGTTTGTN TTTATTTTAA 60
 ATTTTNCCTT TTTTCCGAT TAGGCTTTGG TCAGCATTTT NCATTTAAAG AAAAGTAACA 120
 CTCCCATCCA CTCATAAGCT TGGTACAAAA ACTTCTCTGG CAGTTACTTT TGAAGCTTCA 180
 CTCTGCTTTC TGTATAAAGG GCAGTCTGTG GTCACGCAAG ACTTTAAA 228

SEQ ID NO:5833

SEQUENCE LENGTH:109

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06929

SEQUENCE DESCRIPTION:

GATCTTCTG CTTCGAAGG TATANTGTAT CTATTCTGT CAGGAATNAT ATTTCCAAAT 60
 GAAATGTAA AGAACATTGG GAAATAATAA ACTTTCCTTT CAAAGTAAA 109

SEQ ID NO:5834

SEQUENCE LENGTH:160

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06930

SEQUENCE DESCRIPTION:

GATCTGTGTT TGAAAGAAA AGAAGGAAAC TAAGACGTGC GAGGGNAAGA AAAAGGAAAA 60
 CCTAATTAAT AAATATGTAT CCTCTATAAT NAGTTATNAC AGCCATTGT AATGAATTG 120
 TCGCAAAGAC GTAATAAAT TAACTGGTAG CACGGNCAA 160

SEQ ID NO:5835

SEQUENCE LENGTH:77

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06931

SEQUENCE DESCRIPTION:

GATCGACCGG CACCGCTGTT GCCTCGTAAG CCATAGCGCA TGC GCGCTCT CAGAATAAAC 60
 AGGCCCTGCC TGGGAAA 77

SEQ ID NO:5836

SEQUENCE LENGTH:137

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06932

SEQUENCE DESCRIPTION:

GATCANATAA CAGAATGCAC CAGTCATCAG CTATTCAGTT GGTAAGCTTC CAGGAAAAAG 60

GACAGGCAGA AAGAGTTTNA NACCTGAATA GCTCCCANAT TTCAGTCTTT TCCTGTTTTT 120

GTAACTTTG GGTTAAA 137

SEQ ID NO:5837

SEQUENCE LENGTH:402

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06933

SEQUENCE DESCRIPTION:

GATCCAGCTT CATTCAACAT TACTACCAGT TATTTGATAA TNATAGAACC CAACTAGGCG 60

CAATTTACAT TGACGCGTCA TGCCTTACGT GGGAAAGGACA ACAGTTCCAG GGGAAAGCTG 120

CCATTGTGGA GAAGTTGTCT AGCCTTCCGT TCCAGAAAAT TCAGCACAGC ATCACCAGCGC 180

AGGACCATCA GCCCACTCCA GATAGCTGCA TCATCAGCAT GGTGTGCGG CAGCTTANGG 240

CGGNTGAAGA CCCCATCATG GGNNTNCGCC AGATGTTCTT ATTAAGAAGC ATCAACGATG 300

NTTGGGTTTG CACCAATGNC ATGCTTCAGG CTCGTCCTGC NCANNTTTGG CTGNCCTNCT 360

TTGCAGNTTG GGNACTNANG NTGTTTGCTT GCTGCCTTTT GN 402

SEQ ID NO:5838

SEQUENCE LENGTH:261

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06934

SEQUENCE DESCRIPTION:

GATCTTCGTA ACGGCTCGG CACGCTCCAC ACCCCTGGAG TCTCCGAGG CCCCCATGTG 60

CTGCTGAGTG GCCAAGATGA TGCCAGGCTG CCCTATACAC TGGGGGATTC TGCCCTGGCC 120

CATGCACACC CGTCTTTCCA TGATGGCAGA GACATCCAGT NAGGACCTGA CCCGTCTCTG 180

TCTGAGGCCG GCTCAGCAGT GCAGCCTGGT CCCTGGGGGC TGGACCCAGG CTCCTAAATA 240

AACCAGCAAC TNCCTCGNAA A 261

SEQ ID NO:5839

SEQUENCE LENGTH:158

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06935

SEQUENCE DESCRIPTION:

GATCTCGGCT CACTGCAACC TCTGCCTCCC GAGTCCTGGT TCAAACATTT CTCCTGCCTC 60

ANTCTCCTGA GTAGCTGGGA CTACAGNNAC GAGCCACCAC ACCCTNCCCC CGMATCCCCT 120

GCCTCCATCC TAGTAAAGAC TCCTTGCTAT GCTGCAAA 158

SEQ ID NO:5840

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06936

SEQUENCE DESCRIPTION:

GATCAGTTTT GCCAAGGGGC CAGAATTATT CCTTGTTAGA ATTGCTCCAG TTCAAGTCTG 60
 CTGCTTTCCT ACAGTTTTTC AAATTTTATA ATGTATTAAA TACAATAAAC TCTGTTTAAA 120
 AAATAAA 127

SEQ ID NO:5841

SEQUENCE LENGTH:232

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06937

SEQUENCE DESCRIPTION:

GATCAAAGAA AATTTATCTC TTTTATAAA CTTAAGGACA GTTGCAAAAG GCTTCAAGGA 60
 ATTTATCTCA ACATTATTCT TTCTATGTCC TAACTAAATT CCTCAACTGT NATGANTTTT 120
 CCANCTACTT CTTGAACAGT GGTCTATNCT GCTACATGAN GATGAATACA AACAANNNTN 180
 TTGTATAACC TACTATNCCA GTNCTCCTGT GTCAGTCTTG CCTATGGATN TN 232

SEQ ID NO:5842

SEQUENCE LENGTH:290

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06938

SEQUENCE DESCRIPTION:

GATCTCCAGN GCGCAGTGGG TTGGAGGAAG TACTACGTGA CAGCTGGGGG AGCCTAGCCC 60
 TTGTNTGGGN ACTCACACAT CCACTCTAAC CCTTCTNACC ACAGGTCCGG CCGCCCCATT 120
 AGCTTCATNG TGGTTTTCAT CACCCCAAC CCCCTGAGCA AGATTTCCTG GGTCAACAGG 180
 TTACATTTGG CCANAATCGG ACTCCGTGAG TATAGCCCCA GGGAGAGTGC CTNAGGGGGC 240
 AGNNGTGTGG AACGNAGG TTNNGGTGA GTNNGGTAC AGAATGTNGN 290

SEQ ID NO:5843

SEQUENCE LENGTH:198

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06939

SEQUENCE DESCRIPTION:

GATCTTGTGA CATTCTTCT CCTGGACAAT NAGTCTCAGG AGCTCCTCAC CAAGCACCTT 60
 GTTACCCCA CCCCTGCCA CAAGAGAAAA CGCACGTAA CTGTAATTN TCCACTACCT 120
 ACCCAAATCC TATAAACTG CCCACCCA TCTCCTTTG CTGACTCCAG GTGATTAAAN 180
 AACTATTGCT CAGGGAAA 198

SEQ ID NO:5844

SEQUENCE LENGTH:255

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06941

SEQUENCE DESCRIPTION:

GATCTTTTT CTAACACATA TTGAACTGA ATAACAGACT TAAAGAAAGC CTTTGTTTAC 60
 ATTGCTATTT ACTNTTGTGT TTGGGGGAAA ATACGAGGGA TTGATTTTAA ATAAAAAACA 120
 TTCCNTCTTT CATTNAATAT CAGTATCAAA AGAGGNGAC AAACATCTAT CTTTCTCATC 180
 TNTATTNAAG TNCCTTTTGG TANTGTAGTA TCAANGTTTT TTAGGTGNTG CAAGGTTTTA 240
 CAANTCATT GTGGN 255

SEQ ID NO:5845

SEQUENCE LENGTH:318

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06942

SEQUENCE DESCRIPTION:

GATCCCTCAG AAGACTTAACT TTGGCTGGAG TGGGAGGAAC TGAAATACC ACTCCATGGT 60
 ATACCCATAT ATCCAAATCG TAGAGAACGA GAAGCTATGA TTTATCATC TTATGCTGGA 120
 ATCTTAATGA ACAGTATCCC GATTGAGGAA GTCTTTAAAA TTTATGGGGC TGATTCTNCT 180
 GNCGATTCTG GTACCATCAA GTTCCCCGA GTTTCATCTN TCCGNCCTC CTTNCACCNC 240
 TNTTGCCATG TTAGCAGNAN CNANAGCAGC AGCATACGGC CGCAAACNGG GTGTCNAGTC 300
 AAGNANGGTT GCAGCAGN 318

SEQ ID NO:5846

SEQUENCE LENGTH:54

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06943

SEQUENCE DESCRIPTION:

GATCGGAGGT TGGGTTCCCTG ATTAACTTC ACTGTGTGTT TTCTATNTCG GAAA 54

SEQ ID NO:5847

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06945

SEQUENCE DESCRIPTION:

GATCAGAGAN TTACCACCCC TGCTTNGAAG CAGTGTGGT GTATTCCCAC TAAATAAAC 60
 CAACTGGTAT AACATTCCCT GGAGCTTAAT AAGCACTCAA TAAATATTG TNGANTAAAN 120
 ANAGAAAN 127

SEQ ID NO:5848

SEQUENCE LENGTH:212

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06946

SEQUENCE DESCRIPTION:

5 GATCTGCAGA TTCCAAATGG GAATAAGCTC TATCATATTC TGAAACAAGA ATTAGAATGN 60
 CITGAGAACG GGCAAATAAC AAAGCAAACC AATATAATTA TATGGTCATT CTGACCCCAG 120
 CTCTTATACA NNTTATACAT GTATTTTGT GTATGTTGT GAGAGTTGTA TGTATGTGAA 180
 TGNGTGTGAG TGTGTATTCA CATAACATA TN 212

10

SEQ ID NO:5849

SEQUENCE LENGTH:213

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15

CLONE:HUMGS06947

SEQUENCE DESCRIPTION:

20 GATCATAAGG TGAAGTCCCA CAATAGGCCG TCTGCAAGCT GAGAAGCAGN GNAAGCCAGT 60
 CTGAGTCCCA AAACCCTAAC AGTAATCCTT TNCTAACGTC AGGNTGCGTA TCGACCTGTG 120
 TGTGCACATT TGCTGTGCAG AGTGTGCACT GCTGAGGAGA ATGGTGCCCA AGAAGGGCAC 180
 TGTITGNCCC AAANTTTNC AANTAANCAT TGN 213

25

SEQ ID NO:5850

SEQUENCE LENGTH:65

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06948

SEQUENCE DESCRIPTION:

30 GATCATCTTG AATTACTGTG GGATGTANGT TTCAAAATTT TCAAATAAAG CCTTTGCAAG 60
 ATAAA 65

35

SEQ ID NO:5851

SEQUENCE LENGTH:55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06949

SEQUENCE DESCRIPTION:

40 GATCACATAC TGCAGTCCAG CCTAGGCAAC GGNGCAAGAC GTCATCTCAA GGAAA 55

40

SEQ ID NO:5852

SEQUENCE LENGTH:186

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06951

SEQUENCE DESCRIPTION:

50 GATCTCCCA AATCCATTGN TNTCACCAGG CCCTCCAGA ACCTCCTCAG TTCCTTCACA 60
 GTGCAACCCT NTGTACTTGG CCCGCAACCC ANTAGTATTG TGCCTCACTT CACCTTCCAT 120
 GGGCAACTGC CCTCCCTTCT GGACATAAAA CCTNATATNT TAAATAAAGT TGAANTATGN 180

55

NAAGAN

186

SEQ ID NO:5853

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06952

SEQUENCE DESCRIPTION:

GATCAACTGA AAAAAGCATG ACTTTTGAAA TCTCTGAATG CCTTGGTTCT NAGTATTATC 60
 ATNCTTNATT GAATTATTT CTNATTAAAN TATGTAGTTT TN 102

SEQ ID NO:5854

SEQUENCE LENGTH:97

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06953

SEQUENCE DESCRIPTION:

GATCATGTGG AGTGAAAGGC AAATCTTACT GCTTAATGTA TAACTCTCA CCACAGGAAG 60
 CATCGCTGTT TCCAATAAAT ATTGCTGAAG ACAGAAA 97

SEQ ID NO:5855

SEQUENCE LENGTH:308

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06954

SEQUENCE DESCRIPTION:

GATCTGTCCA GTTTGTGTAT GAAATGGATT TGATAAAGTT TTTGCTAGTT ATTTACTACA 60
 TTTTGGGATT AATAAGTGAT TTANATGCAT ATNTTCCTGT AAATCTACAG TTTTGTGAC 120
 AAGATATTCT ACAAGTNATG ANGCTAAGGG AAGAAAATGC CAAAGATACC TCTAGTTATG 180
 TTGANCACAG CCAGCACAGT TTCGACAGGT CAAGGAAGAG CTGTTTCAGT AAAGANTGAN 240
 GTGAAAACNC TTATTTNGGA AANTGTTTCT CANTANTAAN CTGTATAGTT GTTCTCTNA 300
 NACCCCCN 308

SEQ ID NO:5856

SEQUENCE LENGTH:128

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06955

SEQUENCE DESCRIPTION:

GATCCCAAGT GTTAGAAAA CTAAGTAAAC TTTGTTGTCA AGCAATTTGT CCATGTGGAA 60
 AGAATTTAAA GAGAAGCTGA ACAATGGAAT AAACAAATAA AGCATGTTTT TNNATCTTC 120
 CCATTAAA 128

SEQ ID NO:5857

SEQUENCE LENGTH:143

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06956

5 SEQUENCE DESCRIPTION:

GATCTTAAAA ACTGCAGTAT TCCCCATTT TTTAATGAGA GTGTGGGGCT GGCAGGGNTT 60
GGTTGGAGGG AGGAGAGAAG ACAGAGGAGC ACTTAAGGTG CAAAGCAGCC TATTTTCCT 120
TCAATAAAAA TTGTTAAGGG AAA 143

10

SEQ ID NO:5858

SEQUENCE LENGTH:235

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15

CLONE:HUMGS06957

SEQUENCE DESCRIPTION:

20 GATCCGTGGA AATAGCCTGG CTCCCTCTTA CCCAGTAATG AGGGGCAGGG AAGGGAAGTG 60
GGAGGCAGCC GTTTAGTCCT CCCTGCCCTG CCCACTGCCT GGATGGGGCG ATGCCACNNN 120
GTCACTCTTC ACCCAGCTCT GGCTCTGGG TCCCACCACC NAGCCCCCG TGTNAGAACA 180
ATCTTTGCTC TGTACAATCG GGCTCTTTAC AATAAACCT TCCTGCTTNC ACAA 235

SEQ ID NO:5859

SEQUENCE LENGTH:258

25

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06959

SEQUENCE DESCRIPTION:

30 GATCCAGTAC TATCAGAAATG ACATCCCCTA CTGAGGAGGG GACCTTCGAG GGCCTCTGCC 60
CCATGTGCCC TCAAAGCTGT CCCACAATCA TGGAGCCCTG CNACCTNCCT GCCCTGNCGN 120
CACATGCAGT NGAGGAGAGG CCTGTGGCCA AAGAACCTGG TAGCGGCTCC TNGGGCAGCA 180
CGTGENTGGC GCACTTTGGT AACGCCATGG GANTGCAGCG NCCANTCGAA TGGGATNGGT 240
GCTGTTNTAT GCACAGGN 258

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SEQ ID NO:5860

SEQUENCE LENGTH:309

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40

CLONE:HUMGS06960

SEQUENCE DESCRIPTION:

45 GATCAGATTA CCAGGAACAT AGGAGTGGAT TCCTGCCCCA ACCAAACCGC ATTCGTGTGG 60
ATTTTTTAT TCAACTTAAT TGGCTATTCC AAAGATTTTT TTTCCCTAT TTTAACGAT 120
TGGAGCCCTT AAGATGCACG ATGGAATTGT GTTTTGCCTT TTTNGGNAAG NGGGAGCAAA 180
GCGGGGNCCT GGNATAAAC GNTTGGAGCA ATCTCCTTNG GNAGGGATT CAGCANGGGG 240
TTAGNTNGGT GAAACATTTT AAAGGGGGGA AAGGGGGGGG GTTTTTTTTT NAAANTGGGN 300
TAAATNCGN 309

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SEQ ID NO:5861

55

SEQUENCE LENGTH:179

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06961

SEQUENCE DESCRIPTION:

GATCATGTGG ACCAGAGCAA ANNAAGTTC AGTTTGTGTC ACAATTCATT GCCAGACTTC 60

ATTGGAATGC TTTGTTTATGAT GATGTATGTN CATTCTCAGC TTTATTTTCA GATGCTTAAC 120

TGGGCAATGA AGTCTAACTT CAGGTTGAAC TNTCTCCNGN NTAANCTCAG GCTAAATGN 179

SEQ ID NO:5862

SEQUENCE LENGTH:341

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06963

SEQUENCE DESCRIPTION:

GATCGTGGTG GTGGGGACTG GAGACCGGAC CGAGAGGCTG CAGTCCCAGG TGCTTCAAGC 60

CATGAGGCAG CGGGGCATTG CTGTGGAAGT GCAGGACACG CCCAATGCCT GTGCCACCTT 120

CAACTTCCTG TGTATGAAG GCCGAGTAAC TGGAGCTGCT CTCATCCCTC CACCAGGAGG 180

GACTTCACTT ACATCTTTGG GCCAAGCTGC TCAATGAACC GNCAGGAACT GACCTGCTGA 240

CTGCACTCTG CCAGGCTTCC NAATTGCTTT CANTCTTATC TACCCTTTTG GGAATTATNT 300

NGGCTTATCA ACATAATAAT TTGATACAAC TNNTCCCAA A 341

SEQ ID NO:5863

SEQUENCE LENGTH:60

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06964

SEQUENCE DESCRIPTION:

GATCTGGTGA AAATAGGATT ACATTGGAGC CAATTGAATA AATTATTCTT TTCAATCAAA 60

SEQ ID NO:5864

SEQUENCE LENGTH:359

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06965

SEQUENCE DESCRIPTION:

GATCTGGGAG GTGGAAGCCA GGCCAGAGGA CTTGGGGAAA ATAAGATGGA GGAAGGAAAA 60

AGGGAGAAGC TGAGCCACAG CTTAACTCCT ACAGAGTGAA ATNAAAACGG GCTGAAAAATA 120

CCACCCACAG AGAGGACCTC GCCCCAAGCA AGCCAGTGAG CAGCCCTGCC AGACTACTGC 180

CAGACTGAGA AATCCAGAAG CTGGTAGTCA TGTGGGCTTG CNTTCTNTGC CAAACGACTG 240

GGAAACCAAA ATNAGCCAC CTTGTGTTCT TCCTAGCTCC ACCCTCCCGG TGCTGCTGTG 300

TTCTGCTCCT TCCNCACGGT TTCCCTGCTA TAGTCCCGAG CTGCTTGTA CCGGGGCCNN 359

SEQ ID NO:5865

SEQUENCE LENGTH:170

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06966

SEQUENCE DESCRIPTION:

GATCATGGCT AACGGGCACA GGCTTTCTTT TTTGGGTGAT GAAAAATATC TAAAAATACT 60
GTAAAAATAT TGCACAACTC TGTNAACATG TGA AACCCA CTGAACTGTA TGCTCTAACT 120
GTATGAATTG TATGGTATTT AAATTTNACC TCAATAAAGC TGTATCAAA 170

SEQ ID NO:5866

SEQUENCE LENGTH:187

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06967

SEQUENCE DESCRIPTION:

GATCAGAGCA AGAGAACTTC CAGAGATAAT GGATAGAATG AAAGAATATA TATCTATATA 60
TATTTAACAT GTTGTITAGT AATCCCTATT TTAATTCAT TCTCCATCTG TAAAAATATA 120
GCTAACTGAA TTATTTCTGT GTTCTACTCT GGGCTCTCAC ATTA AACTC TGTTCAAAAA 180
GTTTAAA 187

SEQ ID NO:5867

SEQUENCE LENGTH:57

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06969

SEQUENCE DESCRIPTION:

GATCTTGGAC TTCCAGCCT CCAAACTGT GAGAAATAAA CTCCTGTTGT TTGTAAA 57

SEQ ID NO:5868

SEQUENCE LENGTH:289

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06971

SEQUENCE DESCRIPTION:

GATCATGGTC AGCTCACACC CTAATAAGTC CACATCTTCT CAGTGTITTA GCTGTTTTTT 60
TCATTAGGNT TCCTTNTATT CTGTACCTTG CAGCCATGAC CAGTCTGGC CAGGAGCTGG 120
AGGAGCAGGC AGTGNGTGGG AGCTCCTNTT AGGTAGANTT TAACATGACT TCTGCCCCAG 180
CTTNATCTGT CACACANGTN TGTGGCACCN CTAGTGCTAC TGCTAGGATA TCACTTACTC 240
AGTTAGATTT TTCNAAAAA NTAAGCTTTT AATTNATTC TTTGGTGTM 289

SEQ ID NO:5869

SEQUENCE LENGTH:346

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06972

SEQUENCE DESCRIPTION:

GATCTCCTCT TCCACCTCTT CCTGGTTCCT TTGCGGGGAA AATTGCACTA AACAGAACC 60
 TTTTCTTAAT CCATGTTGGA AGGAAGCAAC AGTGAAGTCT ACCTGTTCTG GAGTTCTCCT 120
 GGGTCTGCAG AAGGTTGGGA ATTTAGAAAA TAAGGCTGTT CTTTCATATT TTAATTTAAT 180
 CTCTGTCAAT GGCCATCCCT CCCACAAAAA AACGTGGGTT AAGAGAACTT GCAGACTGGA 240
 TATGCAAGCA AACGGGCANC TCTGGAGAAA ANTANGGNAN GGAATGCTGA CTTTCTCTTT 300
 CTNTCTCTTT GTCCCCACAC CNNTTCCCAN CCAATTACT GGGGTN 346

SEQ ID NO:5870
 SEQUENCE LENGTH:187
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06973

SEQUENCE DESCRIPTION:
 GATCCCGACC CTCACCAGTC CCATTTGCCT CCCTCCAGCT CTGCTTAGGC ATTTTGCCCC 60
 TCACCCCAAT GTTCCACACC ATCGACAACC AAGGGGTGAG GTGGGGACAG GCCTCAGCAG 120
 GGAATGGGGC GTATATGTTA GTGTGCTGC AACAATAAAG CCTGTTGCAT CTCTCATGCC 180
 AGTGAAA 187

SEQ ID NO:5871
 SEQUENCE LENGTH:135
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06975

SEQUENCE DESCRIPTION:
 GATCTNGGAC TTCCAGAAAA CAGAACTGTG AAAAGNCAAG TTTCTGTNGT TTAACCACC 60
 CAATCTGAAG TAITTINGTTA TGGCAGTCCT NGGCAGACTA ATACAATATG CAACACATT 120
 ACAATANATA TACAN 135

SEQ ID NO:5872
 SEQUENCE LENGTH:138
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06977

SEQUENCE DESCRIPTION:
 GATCAAAATA TGATGTTAAA TTCTTAAATC ATATTGCTA TGCAGCTGAA GATGATATT 60
 TGATTTGTAT TTTGGGGGTA CCTGTGTTGA GTTGATAAAC ATTCCATCT TCATTAAAC 120
 TGCTTCCAAA CTAGTAAA 138

SEQ ID NO:5873
 SEQUENCE LENGTH:189
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS06978

SEQUENCE DESCRIPTION:
 GATCGGCGGG GCACAGTGGC TCGTGCCTGT AATCCCAGCA CTTTGGGAGG CCTAAGCAGG 60

CTGGTCGCTT GANCCCAAGA GTTCGAGACC AGCCTGGGCA ATACAGCGAG ACCCCATCTC 120
 AATTATATT ATTTAAAAAN TAATTAATGT AAGAGNAATT AAAACAGATT TTAAANNGG 180
 NNAAANNAN 189

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SEQ ID NO:5874

SEQUENCE LENGTH:98

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06979

SEQUENCE DESCRIPTION:

GATCTGACTC TTCATTNTA AGTTCCTTGT TACATCATGG TCATTNCTA GTTTTNACC 60
 AGACTCCCAT CTCACAATAA AATGCATCAA CAAGCAA 98

15

SEQ ID NO:5875

SEQUENCE LENGTH:182

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

20

CLONE:HUMGS06981

SEQUENCE DESCRIPTION:

GATCTGCCGG CTCCCGCCA GCCTGTGTNG AAAGAAGGCC CACGGGCACT AGGGGAGCCG 60
 AATTCTACAA TCCCGCTGGG GCGNCCGGGG CGGGAGAGAA AGCTGGTGTG GCAGTGGTGG 120
 CCCTNCGGGG CCATTGATT CGCCTCAGTT GCTGCTGTAA TAAAAGTCTA CTTTTGCTA 180
 AA 182

25

SEQ ID NO:5876

SEQUENCE LENGTH:87

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30

CLONE:HUMGS06982

SEQUENCE DESCRIPTION:

GATCTTGTTC TNCCTCATCT GTAAAAGNAG GTTAACAAAG CTTTCTGCC CACTTCTTGG 60
 GGAGAAGGGA ATAACATAAT TGGTAAA 87

35

SEQ ID NO:5877

SEQUENCE LENGTH:315

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS06983

SEQUENCE DESCRIPTION:

GATCTTTGGC AGCGCATATG GCCTCTTGG GGTATCGTC GCAATTNTTC AGACCTCCAG 60
 AGTGAAGATG GGTGACTAGA TGATATGTGT GGGTNGGGCC GNGCCTCACT TTTATNTATT 120
 GCTGGTTTTC CTGGGACAGC TGGAGCTGTG TCCTTTAGCC TTTCAGAGGC TTNGTGTCA 180
 GGGCCCTCCC TGACTCCCC TCTTGCTGCG TGTTGATTG GAGGCACTGC AGTCCAGGNN 240
 NNGTCCTCAG TGCGGGGAGC AGGCTGCTGC TGCTGACTCT GTGCAGCTGN GCACCTGTTN 300
 NCNNCANCTG CACCN 315

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SEQ ID NO:5878

SEQUENCE LENGTH:190

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06984

SEQUENCE DESCRIPTION:

GATCTNTTTT TTTTGGTAG TTCCTCAGCT ATTCAGGAAG GTGTATTNT GCCAGTAATT 60
 ATCCCTATGC TAATACTTTT TAAAACATTA CTAGTGAGTG CCCTAAAACA TTACTAGTGA 120
 GTGCCCTTTT NNTTACAGA AGAAATTGA TTGTTGTGAG CGATAATAAA ATTAACGTGG 180
 ANCTCTTAAA 190

SEQ ID NO:5879

SEQUENCE LENGTH:322

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06985

SEQUENCE DESCRIPTION:

GATCTCTATT ATNAGGCTAG ATGTATAGCC TCTACTCCCC CAGCTTCTTG CTCTTGACCC 60
 TGCACTGTAA GTTGCCCTTC TATTAGCAGC CAAGGAAAAG GGAACATGA GCTTATCCAG 120
 AACGGTGGCA GAGTCTCCTT GGCAATCAAC CAACGTTGCT ATGAAATATG CCTCACACTG 180
 TATAGCTCAT TATAGGACGT CAGGTTTNTT GAAAAAAGTG GGCAAGNCAT GATTAATGAA 240
 TCAGAATCCT GTTCATTGG TGAATTGGT GGGGGCTNTT TGAATTTAA AAANTNNTNG 300
 TNAGNTGTAG NNNNGTGTNT NN 322

SEQ ID NO:5880

SEQUENCE LENGTH:247

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06986

SEQUENCE DESCRIPTION:

GATCATGGAA TACAAGATAA TTTCTCAGGA ATCAGATGGT CTTATTCCAC ACCTGCAGGA 60
 ATGTCAGCAT TGCAACCACC ATGGCAAATA TTGATTAAAT AANCAATTAC TATTCCCAGA 120
 TAAGTGTCAA ANTCTTAGAN GAAATTGTCA TATCTTAGAC AATTTAGANG TGATGGAGGG 180
 TGGATGATGA GAAATTATCG CACCACTGCA CTCCAGCCTG GGCACAGAG CAAGACTCTG 240
 TCTCAA 247

SEQ ID NO:5881

SEQUENCE LENGTH:51

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06987

SEQUENCE DESCRIPTION:

GATCCACAGT GTTGGGCACA ACTTTGACGT TTCTTAAAAA AAAAATTAA A 51

SEQ ID NO:5882

SEQUENCE LENGTH:276

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06988

SEQUENCE DESCRIPTION:

GATCCTTGAT TGGTGAAAGG ATACACAAAA TCAGGCTGCT TCAGAGGAAG TCATCTGCTC 60
 ACAGGAATCA GGGTGAAAGG CAAGGACGGC ACTCAAGAAT TGCCTGTCT CTAAAAAAA 120
 AGCATCTGCA ACGAACTTCC TTTAATTTT GAGTTCAGTG TCTGTGATAA TTAAGAAATG 180
 GCANTACCAT GTATTNCCC CAGAA GTTAA GANATATTGC TGNACGGACC ANTAAGTA 240
 ATTCAGCTC CCTCAAGNAN NATGNGGTGN GGGNGN 276

SEQ ID NO:5883

SEQUENCE LENGTH:54

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06989

SEQUENCE DESCRIPTION:

GATCGCGCCA CTTCTCTCTA GCCCAGGCAA CAGAAAGAGG CCCCATCTCA GAAA 54

SEQ ID NO:5884

SEQUENCE LENGTH:72

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06990

SEQUENCE DESCRIPTION:

GATCCTTAAT TGCTACCACA TTTCAAACAA GAACTATGAC CAATTAACT TTACTGTTGT 60
 TGAAGTCCA AA 72

SEQ ID NO:5885

SEQUENCE LENGTH:267

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06991

SEQUENCE DESCRIPTION:

GATCCNTTGG GAATCCAGTT GAAGTCCCA AATACTTTAT AAGAGTTTAT CAGACATCTC 60
 TAATTGGCC ATGTCCAGTT TATACAGTTT ACAAATATA GCAGATGCAA GATTATGGGG 120
 GAAATCCTAT ATTCAGAGTA CTCTATAAAT NTTNGTGTAT GTGTGTATGT GCGTGTGATT 180
 TACCAGAGAA CTACTIONAAA NAACCAACTG ATTNTTTNAA TCCTANTGTG TAGGTAAAG 240
 TGTCATGCCN TNACCANTN CTAATGN 267

SEQ ID NO:5886

SEQUENCE LENGTH:164

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06992

SEQUENCE DESCRIPTION:

5 GATCATAAAA ATAGCAGNGC ATGTTNCCTG ATGATTTTAC AGTGCATATT GTCATGGCCA 60
 GGGCTTAGAG GTAGGGGAAA AACATGTGGA CAGCTTTGTG ACAAGAGTCT CTCTTATAGT 120
 GTTCTTTTCT AAAGTAACTT TTTCTGAGTA TGAATGTNNN NNNN 164

SEQ ID NO:5887

10 SEQUENCE LENGTH:341

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06993

SEQUENCE DESCRIPTION:

15 GATCCATGCA AATTGTCGCA TCCGACGGGT TAACTTCTCA GACAGACTCT ACTCAGANGA 60
 TGAGCTGCCG GCAGAGTTCA AACTGTATCT CCCAGTTCAG AACAGGCCAA AGCAATAACT 120
 GGAATTGTGA CTCGAGGGAT AGACCCCTGG ATGTGACTCT NCTTTTAAA AGGAAACTAT 180
 GTGGAGGACG ATGCAAAANC ATATTTATCT TAGTTTGCTC TGCTGTAGTT CTGTTATTTA 240
 TACTTGGTGT TGCTTGTCAT GGACACNGGT GAACATGCCG TAACTCTGTG ACTGCATTGT 300
 20 AAGTGCAGTG GGGGTAAGCA GTCCTGTGGC GTGGCGCATT N 341

SEQ ID NO:5888

SEQUENCE LENGTH:256

25 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06994

SEQUENCE DESCRIPTION:

30 GATCCTGGAC TGGGTACCTT ACATCAATGG CAAGTTTAAG AAGGNTAATT AATTACACAA 60
 ACCCTTCACA GACTGCTCTG GTGCCTGGTG GTGCTAGCTC CTCCCACCTC AGCACCTGCT 120
 GCATCTGGAG CAGCCCAAGC CTCAGGATGG NCAAGNGGAA ACCCACAGCT CAGCTTCAGG 180
 CTTCTTATGT TTTGAAAAC AGCTTGNTA TTTAATGCA CGTTGCATTA AACCTCACTG 240
 AANCATAANG GGGAAA 256

35 SEQ ID NO:5889

SEQUENCE LENGTH:204

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06995

SEQUENCE DESCRIPTION:

40 GATCTTTGTA GGACTATATG TGTCAGTAAT NATGAGCTTC AATCCTGACA TTAATAACTT 60
 ACTGTNGAGC AGAGAAGAGT TGCTTGTAAG CCTTGCTGCTT TTATATACTA NTTTAAANNC 120
 TTAAGTGAT AGTGAGCTAT GAAGTACCAA TCATGTATGA TATGTGGATA CAAAGCACAG 180
 45 TATTATTAAG GTGTNATGTG GAAA 204

SEQ ID NO:5890

SEQUENCE LENGTH:173

50 SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS06996

SEQUENCE DESCRIPTION:

5 GATCAGCAAT AAAAANAAC CTACAAAAA NCCTATATTC NTAATTNTT GCTTTTACGG 60
 TGATATAGTG CATGCAAACC AGGAGCATT TGTGTCTTAA GAAAAATAAT CTTAGAACAG 120
 ATGGCTGTGA AAATTACACC CATGCACAGN ACANGCCACA GGAATAATNG GNN 173

10 SEQ ID NO:5891

SEQUENCE LENGTH:156

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06997

15 SEQUENCE DESCRIPTION:

GATCAAAATAT TGGTTGAATG CCTATGTATG TCAGGCCCTG TGCTGAGCCA TGAGGATTAA 60
 AAAGATGAAT AANCATATCT TGTTTAGGAA ATGGATGTAT AAAAAATCA AGTGCAATAA 120
 AGTGTGTGTC CAAAAGCTGA CACAATGGAA AGGAAA 156

20 SEQ ID NO:5892

SEQUENCE LENGTH:100

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06998

25 SEQUENCE DESCRIPTION:

GATCGCTTGA ACCTGGGAGG CAGAATTTC AATNAGCTGA GATTGCACCN TTGCACTCCN 60
 GCCTGGGTGA CAGAGTGACA CTCTGTTTGA AACAAACAAA 100

30 SEQ ID NO:5893

SEQUENCE LENGTH:65

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06999

35 SEQUENCE DESCRIPTION:

GATCACTTGA GCTCAGGAGT CCTAAACCAG CCTGGGCAAC ATAGTGATAC CTTGTCTCTA 60
 CCAA 65

40 SEQ ID NO:5894

SEQUENCE LENGTH:94

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07000

45 SEQUENCE DESCRIPTION:

GATCTTGAAT AATTCATAAT TCTTCCACAG TAGAAATAAA ATAATTNCTG GCTAGTTATT 60
 TTCTTAAAAA TAAAAAAAT TTGAAAACCT CAAA 94

50 SEQ ID NO:5895

SEQUENCE LENGTH:89

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07001

SEQUENCE DESCRIPTION:

GATCCCTCTT TTCCAGAAAA TTCTGTGGAA TTTTCTGTA GGACTTTGTT CTCCACAAGC 60

TTGAATTAAA GCAGGATTCA GTTTGCCAAA 89

SEQ ID NO:5896

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07002

SEQUENCE DESCRIPTION:

GATCAGCTGA AGTGTGTTTT AGACCCAAAC CATCTGGCCC CTTGTTTTG CTCAGAGGAA 60

GTAATNTNC ACTTAAATGA AATTGAAAAC GCCATGTGGC ACCACAAAAG AGCTCTCTGT 120

ACTTNCCTCA TGCTGCTCA AAAGTCTGT AAGTTTCGGG GTCAGTGTCC CACCTTCAC 180

TTCCCGANNN NNGGGN 196

SEQ ID NO:5897

SEQUENCE LENGTH:56

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07003

SEQUENCE DESCRIPTION:

GATCCCAGTT TGCCTTGCCA AATAAACTCT GTTTATGTGA ATTTATTAAA CGCAA 56

SEQ ID NO:5898

SEQUENCE LENGTH:294

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07004

SEQUENCE DESCRIPTION:

GATCCCAGCT TTTTCCCTC TCCACAAAA CCAGGTAGTG AAGTTATATT ACCAGTTACA 60

GCAAAATACT TTGTGTTCA CAAGCAACAA TAAATGTAGA TTCTTTATAC TGAAGCTATT 120

GACTTGTAGT GTGTGGTGA AATGCATGCA GGAAATNCT GTTACCATAA AGANCGGTAA 180

ACCACATTAC AATCAAGCCA AAAGAATAAA GGTTCGCTT TTNTNTTGT ATTNATTGT 240

TGTCTTTGTT TCTATCTNNG ANATGCCATT TAAAGGTAGA TTTCTATCAT GTAN 294

SEQ ID NO:5899

SEQUENCE LENGTH:113

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07005

SEQUENCE DESCRIPTION:

GATCTCCCTA CTCCATTNN CCCTTTAATT NAAGTGGCCA CATGTATATG TCTTCCCTGC 60
TGTGTTAGGA AAATGGGGC TGGATATCCC AAGAATCAGA GGTATATAN AAN 113

5 SEQ ID NO:5900
SEQUENCE LENGTH:171
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS07006

SEQUENCE DESCRIPTION:
GATCGCTTTT GTGACTGTCC ATCTGTCCTT GACAGTGGCT GTCATATTGA CTCCTTTGNT 60
GNTTTGTTGG TATTGGGGAC ATTTCCACG GCTGAGTTNT TTTTGACTGA CATGTTTATG 120
ACATAGACGT NGTTTTCGCA TCCNTGACTT AACTGACTT GNACNCCNTT N 171

15 SEQ ID NO:5901
SEQUENCE LENGTH:76
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
20 CLONE:HUMGS07007

SEQUENCE DESCRIPTION:
GATCTACTGT AAAAAGAGGA TTAAGNAAAA TAAAATNAGA GCAATTATAT ATATAATTNT 60
ATATCATACA CAGAAA 76

25 SEQ ID NO:5902
SEQUENCE LENGTH:118
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
30 CLONE:HUMGS07008

SEQUENCE DESCRIPTION:
GATCACGGGA GCAATGCTGT ACGGTTTTGT AACTGGTGG TTTGTTTCCT AGAAAACCCA 60
TTGNTCTCT GGATTCTAG CACATTACTA AAAGAGCCTC TNCITTTGTAA ACATGAAA 118

35 SEQ ID NO:5903
SEQUENCE LENGTH:185
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
40 CLONE:HUMGS07009

SEQUENCE DESCRIPTION:
GATCANNCTG ANCCAATTTA CCAAGCATT TTAAGGAGGA ATAATNCCAT ACCATGTAAA 60
ATACCATGAT ATGCTGATTA TAATACATTA ACAAATTTT AAGTTGCGTT CACTAAATNC 120
TGTCCTGTTT CTTCAAATA ATATAGCTTA AATTGCATGN TAATNGTATA TCTTACCTNT 180
TTNGN 185

50 SEQ ID NO:5904
SEQUENCE LENGTH:134
SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07011

SEQUENCE DESCRIPTION:

5 GATCTACCCA ACTCTGTCAT CTGTAACAAC CAGTGATAAC TCTCTTGTCT TGTA AAAAGG 60
GTTTATACAT AACTTGTACA TGGTTTCATT TTGTATTTC CGCAGATTAA AAATTTATGT 120
ATTCTNTTC TAAA 134

10 SEQ ID NO:5905

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07012

15 SEQUENCE DESCRIPTION:

GATCGAATTN CNACCCCTAA NCTTGTCGG ACGTATGGTC CAAATTCANA TTAAGGTGGT 60
CACCCAACCC GAGATGTCAG GAAAGGCCTT CTGCAGAGAA AATNTCCCC CACCCGCCAT 120
CTGCAGCCAG GTGTGTGCCA CACGGCAGCC TTCCCGAAAC ATAGTATGGA TTTTAAAAAT 180
20 GTGTTTATTT TTNTNTCTCA ACCACTTTAT AACGTATTTC TCAATTTANN TTGTAATGTC 240
TTGTNTTGGG GNGTTGCTGG GTATCCTTNG TTATGCTTCC CACTGTTNTT NTCACN 297

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SEQ ID NO:5906

SEQUENCE LENGTH:254

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07013

SEQUENCE DESCRIPTION:

GATCTAGAAT GGGGCTGCAA GNCGGTCCCC ATTTTGGATG GGTCACATTC AGACACCACA 60
 CTATGGTTGC ATCACCTGTC ACACCGACCT AGACAGCTGG ATGCCATTG GNGTAGAATA 120
 ACCAGACTGG TGAGTAANCT AGAAATCATA TTACGTGAAG AGTGGCAAAA GGCCTGAGAN 180
 AGTTTAGTTT GGNAACATG ACTTANAAGG GGCATCACTG CCCTCNCIAT TTNTNTNANG 240
 GCCTCATTTC CNGN 254

SEQ ID NO:5907

SEQUENCE LENGTH:120

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07014

SEQUENCE DESCRIPTION:

GATCCATGAA GGAATCGGGA GTGGATGGAA TCGGTAAAA CTGTCCTGGG GCCGGACCCG 60
 TNGCCCAAAG TCCGGACCNN GACCNNAAAA ACGCTTCCAT CTTAGTCACG TTAGCAGAAA 120

SEQ ID NO:5908

SEQUENCE LENGTH:93

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07015

SEQUENCE DESCRIPTION:

GATCCCAATT TTGTAAAAAT ATCTGTAATA TGTAAGCATA GGTATTTGTA TATCTTAAGA 60
 AAAAAAGCCT AGAAATAAAG CCACAAAAAT AAA 93

SEQ ID NO:5909

SEQUENCE LENGTH:306

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07016

SEQUENCE DESCRIPTION:

GATCTCAATN TGCAAACTCC TTGGNCTCCA GACCCCTGTC TGGNTGGNAC TCCTAGCAGT 60
 GTGTGGTTTC ATCAGGAAAT CCTTGCAGCA GGGGNTTAGA TGGTTCCTTC AGGAGGTGGN 120
 GAGCCTCCAT AGCATTGAAG GCCAGCTGTC ATCTCGCGGT GTGTGTCCAC TTCTCCCCTC 180
 ACTTTCCCCT NACCCATCCN TTTAAAGTGA TTGGCTGTGA GGAGCACAGA GGNGTGGCAA 240
 TTCCATCTGT TNATGGGGTC AGAAGACATA GCCGNCATGG NGATTTCACA ATTNACCNNG 300
 GTAAAN 306

SEQ ID NO:5910

SEQUENCE LENGTH:80

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07017

SEQUENCE DESCRIPTION:

GATCATATAG AGTAGTTAAG ACAACTGTAA CAGCATTTTT TGAAATACAT TGTAAAATAA 60
TAAAAGGTAA CATAATTAAA 80

SEQ ID NO:5911

SEQUENCE LENGTH:110

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07018

SEQUENCE DESCRIPTION:

GATCTTAAGC TCTGCTCTCA GCAGATTTC A GGTGTACCAT TTGTAAACTG TACTGAAGGT 60
GTGTCCTCAA GAAGAAAGTG TTCAAATTAA AAAAGCTGCT GCCAAGTAAA 110

SEQ ID NO:5912

SEQUENCE LENGTH:159

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07020

SEQUENCE DESCRIPTION:

GATCGGGAGG ACTGTGGCCA GCAATTAACA CCATGTAGAC TTCCTTAGTT CTTAAGTGGT 60
TGAATTCGCT GNTTGTCTG TAACGTTATA AATAGTNNAT ATCTGAAGAC GGAGAGCCTG 120
TANTATTCTT CAGATTAAAT GAAGCGTGAG ACACTTAAA 159

SEQ ID NO:5913

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07021

SEQUENCE DESCRIPTION:

GATCTCTCCC ATGCCTTTAA AGCAATTAGA ACTAGATAAT GCAGCCATTG GTCACCCAAT 60
TAAATTTGAA AGGCCAGAAA TGCATGGATT AGCACTTCAG CTTTGTCTGC AGTCAAAGCA 120
ATTGTTACTT AGATAGAAGG ACAGTTAAAN TGAAAAATGA ATTTTGNATA AANTGCGGNN 180
GTATAGATAA TATTCAC TTC TTTTAA TGCTTAAACA CCCTGTATTC TGTATTNAC 240
TTGTATCATA NTTTTCAATT CTCATTCTTA TTCCCTGNG ATACTTATTN CTTNCACAAT 300
ATTCTTCAN GTGGATATGT NCTTTAANTN 330

SEQ ID NO:5914

SEQUENCE LENGTH:299

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07022

SEQUENCE DESCRIPTION:

GATCATAGCC CTNNGCCTGG CGGCACAGCA GCACTTGCGT TCTCGGGGCT GTCGATTNCC 60
 TGCCACCTGG CCAGATAACC TCAAGATTTC CACCTTTTCT TTTCAGCTTG ATTGCAITTG 120
 ACTATATTN ACAGCCAGTG ATTGTAGTTT CATGTTAATA TGTGGCAAAA TATTTTGTGA 180
 ATNATTTNCT AATCCCTTTC TGAGTACTCT GGGGCCCTGC ATTTATNAGG CACCTACCTT 240
 CATTTTGCTA ACGCTTANNC TGAATAAAAG NTTTTTGATT CCTTAANAAA AGGGNNNGN 299

SEQ ID NO:5915

SEQUENCE LENGTH:85

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07023

SEQUENCE DESCRIPTION:

GATCCTTTGT CCAGAAGAAG CCCATGGAAT ATTGAATGTA ATACATTAG TCAATTAANT 60
 TTTAAGNAGA TTCTTATNTA ATAAA 85

SEQ ID NO:5916

SEQUENCE LENGTH:189

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07025

SEQUENCE DESCRIPTION:

GATCCAGCTC AGGGGAGCCC TCCTCCTGAC TTTGGAGACC TCCTTCCAGA AAGACTGCTC 60
 GGAATATGGA CTCTGAGCTC TTAAGTTGCA CCCGCTGTAA TACAAATNAG TTGTTTGCTT 120
 GAATTCGAAG AACTGTCTCT GTGGTCTAGG CTGTCTGAAA TTTCTGTTGA GGGTAAGAGA 180
 ATAAGGAAA 189

SEQ ID NO:5917

SEQUENCE LENGTH:215

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07026

SEQUENCE DESCRIPTION:

GATCCCTAGG GATTNTTCAT CTTAAGACTC AAAAGGCTTA ATACCAGGAA CCACCTTGGC 60
 AAGATATTTA CCCACCGGCC ATCTCTGTTT ACTCATGAAT GTTAAATGTT AAAACGCAGC 120
 GCTCTAACCC TGCNTNNMAT TTAATTGCAA ATGTCTGTAA TCTGTAATTG TNATGCCTCT 180
 GATGGAATAA NTTATCTTTT TCAGTCTCCT CTAAT 215

SEQ ID NO:5918

SEQUENCE LENGTH:100

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07027

SEQUENCE DESCRIPTION:

GATCGGATTG ATTAATAAAC AAATNCTCTG GAATTTTNC GTTCATGCTT TTCCGTATTC 60

TTTATGGCTT TTAAATAAAT ATACAATGGT TAATAGTAAA

100

SEQ ID NO:5919

SEQUENCE LENGTH:163

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07028

SEQUENCE DESCRIPTION:

GATCAGGGGT CCGGCTGTCC TTCTGTCCTG CTGCAGACTA AAGGTCTGGC CAATGTCTTG 60
 CCCCACCCCG CCAGCCGCGA TACGGCGCAG TTCCTATATT CATGTTATTT ATTGTGTACT 120
 GACTCCATCT GCCCCGTCAA ATAAAAAACC ACAAGGTTCTG AAA 163

SEQ ID NO:5920

SEQUENCE LENGTH:132

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07029

SEQUENCE DESCRIPTION:

GATCACTGCT GCTAGCTGAC TGGACCTCCC CATTGGAAGT TTGTAATTTT NCTTTGGCAA 60
 AGTTTCATTG ACTAGTAGAA CTCATTCTGT TTAGTGTAT ATTTCAATAT AAATGTAAAC 120
 ATTTTGCTCA AA 132

SEQ ID NO:5921

SEQUENCE LENGTH:249

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07030

SEQUENCE DESCRIPTION:

GATCCTAAGG AAGGAAAAAG AAAGTGTTAA AAATTAATAA AGGTTTTTTT GAATCCCGTG 60
 TCCTTCAAGT GCTTTCTAAC TTTGAGAGGA AGAAATTGAC CACCTGGACT ATGGAAGTGT 120
 GCGTAACAGC TTTGAAAGTG TATTTAAAN TTAANTCTAT ATGCCTTTAA NTCAGTGAAT 180
 TGGAAACATA TTACATGNGN TTNNATGATT TNCCTCAAAT ATANTAANTN GTTTCCTTTC 240
 CAGTAGAAA 249

SEQ ID NO:5922

SEQUENCE LENGTH:191

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07031

SEQUENCE DESCRIPTION:

GATCTGCAAG TAGCCTAAAA ATGCGATTGC TGGTAAACCT GGCCTCAAAT TTCATACTAC 60
 CATAACTNNT TTTATATATT GCCACTAATT TTGACTGGAT TTAATAGCAC TTTATTGTAC 120
 AACTACAAAA AAAAAANTNTA TTCCTGGANT TGTGCCNGT GTAATTNCTC TAATGTNCTG 180
 GTGCTTTNCA N 191

SEQ ID NO:5923

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07032

SEQUENCE DESCRIPTION:

GATCTTATTT CATGAAGTT GTATAAATGA AATCATTGAG TAATGTATCT TTTAAGACA 60
GGTTTTTTTT TTCNCTCAG CACAATTTCC TTGAGGTTCA TCCAGGTTGT TACCCATAAT 120
ACCAAGTTTGT NAGTCTTTAT TGCNGTAGTC TATAGCATGC TTATATCACA GTCTGNCCAA 180
CCATTCACCC NTNGATGGGC ATATGGGCAT TNCNGTTTG GNGCTATTNC AANTAN 236

SEQ ID NO:5924

SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07033

SEQUENCE DESCRIPTION:

GATCTNTTTC ATAGTGTTC AANCTGTATT ATTATATGTA GAGGGAAATA ATTTTCTCAA 60
CACTAATCGT TAATAACTAT TGTATTAAAT NGTCATNANG N 101

SEQ ID NO:5925

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07034

SEQUENCE DESCRIPTION:

GATCTGCAGT TTCCCCTTTT NTCCCCTCTG AAGAGTGGTT CTTATGTGCA ATCTGCAGTA 60
ACCTTGAAGT CCAGAGCTGC ACTATAGAGG AGAATGCATG CCACTATGAC AGCAGTATGC 120
CAAGCTTTGT NTTTCATCTCC TAATAAACGT TAAGACCTTT GGTGTAATAA ANGACAGCAGC 180
ATTCACCAAC AAA 193

SEQ ID NO:5926

SEQUENCE LENGTH:251

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07035

SEQUENCE DESCRIPTION:

GATCTGGGGT AGGGGGCACC CTACAGTGGG ACCCNTCCCN CATTATTCTT TCTNTCCAGC 60
CCCTCCCTCC CACTGGAGCA GCTCCAGAGN CATTCTCAC CCCCCTNACC TCTCCCAGCC 120
AGGGCTGAGA GBAATCGAGG TGGCTGGGAG GGTTCAGG CCCCCTGCCC CTTNCCCACA 180
AACTGGGTGN TAGGGCGGAC TTACCTGGCC CAGCCCTGCC TCCNTNAGCC AACCAGNCC 240
NTNGGCTGT N 251

SEQ ID NO:5927

SEQUENCE LENGTH:132

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07036

5 SEQUENCE DESCRIPTION:

GATCTCGATA TTTCAAATGG GCTTTNATG CACTGTTGCC AAGAAAGGCT TTTCCTGATT 60
 TTTTNACAAN TNAATTTTGG CACACTTTCA TTGGTGTCTT TCGGCAACTT ACATTGAAAN 120
 TGAGCTATTG TN 132

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SEQ ID NO:5928

SEQUENCE LENGTH:90

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS07037

SEQUENCE DESCRIPTION:

GATCCCTGGG TTGCCCTGTC CCAACCTGCT TGTTAGGTGC TTCCCATAG NAGGCCCTTC 60
 TTGAGAAACA ATAACTAGG TAGAACTAAA 90

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SEQ ID NO:5929

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25

CLONE:HUMGS07038

SEQUENCE DESCRIPTION:

GATCCTCAAAA CTCATTTGTT GTACCATATA TNATGGTTTT NTGCTATAT CATATATTC 60
 CCTACTTATG TGTITAAATN CTATTTNGTN ATGTCAATCT CTCTGATGCC ACCTATTN 119

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SEQ ID NO:5930

SEQUENCE LENGTH:252

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35

CLONE:HUMGS07039

SEQUENCE DESCRIPTION:

GATCGGGGCC AGAGGCAGAA CCCTGGTGAG GAAGCTCCAG TCCTGCTCTC TACCCAGCCC 60
 ATCTTGCCTC CATGGTGCCT CTGGAGGCCT CTGGGCCTCC TCTAACAGGG GCTGGTGGGC 120
 ACCAAGAGNC AATGGAGTAG ACCCCTGGNT GGTAAGGGNC AAGTCCACC GGTTGCTTCT 180
 GGGAAAGGGT TTCTAACACT AGTTTGTGTG CTGTGGTTCC TGGGGTGCCC TCCACTGCCC 240
 TCTNTTCAGG AN 252

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SEQ ID NO:5931

SEQUENCE LENGTH:76

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS07040

SEQUENCE DESCRIPTION:

GATCCCACTG CAGTGGTGCC TACATTTATC ATCATGGCTC CTCTGAATA AAATCTACCT 60

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TACCATCTTC AACAAA

76

SEQ ID NO:5932

SEQUENCE LENGTH:103

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07041

SEQUENCE DESCRIPTION:

GATCAGCACA GTAATGCCCA ACAATATTGT TTTTAAACAA AAAATGTAAA CATTCAAAAG 60
 AATCTCTCTA AATCACTGAT TAANTCATT T GACTGAAAAC AAA 103

SEQ ID NO:5933

SEQUENCE LENGTH:231

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07043

SEQUENCE DESCRIPTION:

GATCTACCCG NCTNGGCCTC CCAAAGTGCT GGCATTACAG GTGTGAGNCA CCGTGCCCGG 60
 CACCAGNATC CTTTGGTATA GCCAAGCCTT TTGGTTACCG NCTCATGAAG AATATGCTTC 120
 CCGCATTGTC CTAGTCCCAG TTGTATTCTC ACAGGTGTTA TGNNGGGGGC ACAATCCAAA 180
 TNATAAACCT GGTTCATGNC CAACANATTT NTGCTAAATA GGGAGGNGGG N 231

SEQ ID NO:5934

SEQUENCE LENGTH:279

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07044

SEQUENCE DESCRIPTION:

GATCTGAGCC CAGCGTACAG AGAAGGCTCT GTGCAGACAC TGCTCACACC TCCAGCTCCC 60
 AGCTCACCTG CCCACAGGT GCCAGGNTAC CTNTTTNANT GGCCAGCAGG GCCCTNACCA 120
 TCCTCAGCCT GCNTTCCAGT CGCCATTCT TTCCATTCTG CGGCTCGTGC TTTAAAAGCA 180
 ACCAGCCAAC CNTTTNTGAT ATAGTAGGGG ACTTGAAAGG GGCTAAGAAG ACTGANGATG 240
 GTCTGCCACC TTTAACCACA AGGNTTNGGG CTTTGGTTN 279

SEQ ID NO:5935

SEQUENCE LENGTH:235

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07046

SEQUENCE DESCRIPTION:

GATCTAGGAG AAGGGNCTCA TGGGGACCCT CACATGGGCA GAAAAATGGT GGTCAATTGGC 60
 CGACATCACA GTTTTCNGT TTCCACCCA GCTAAAAACC GTTGTGCT TTAANTTTNN 120
 ATAAACTGGA ATCCTTTTAC CCGCTCCTAC AGCTAACCT CACANGCATG AGGTGCTGTG 180
 GCTGTNCCTT ATCCTAATGA TGGGCTNNGG NCCCGTAAAT GTNAACACTC ATGAN 235

SEQ ID NO:5936

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07047

SEQUENCE DESCRIPTION:

GATCAGTTAC ATTCATCAGT TGGTGAGTTT TGAAGAATAA CTACATTNA TTTCAAAC TA 60

ACAAATGTAT ACGGTTT TAG TTCAGTGTTG AAGAATTNA ATACAATATT AANTNNCTN 119

SEQ ID NO:5937

SEQUENCE LENGTH:213

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07048

SEQUENCE DESCRIPTION:

GATCCCTTTT NAAAAATATA TGTATGCATG TNTGCATTAA AGAGTCTGAA AGGATACTTG 60

CCAAAGTGTA AAAGCATTTA TCTCTGGGAG GTGAGATTG GAGCAATTAT ATTTNCITTT 120

TGCATATCTG TAACTNCTNA TTTCCNCAA TGNGCATGTA GTGTCTGTAA AATTTTCCAG 180

GGAATAANCA NTGATGTTCA CAATATATAT TNN 213

SEQ ID NO:5938

SEQUENCE LENGTH:147

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07049

SEQUENCE DESCRIPTION:

GATCCAGACC ATCCTGGCTA ACATGATGAA ACCCTGTTGC NTGTNGTACC AACTACTTGG 60

GAGGCTGAGG CAGGAGAATG GCATGAACTC GGGAGGCGGA NTTGAGTGA GCCTCCAGCC 120

TGGGCAACAG AGTGAGACTC TCTCAAA 147

SEQ ID NO:5939

SEQUENCE LENGTH:299

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07050

SEQUENCE DESCRIPTION:

GATCCTGGGA GCCTCTGTTT TTTGCGCATT TCAGACACAG TCTGTGTGGC GAGGAGTGTG 60

ANGGNAGGAG CCTNGGGTGC AAGCCCGTGT NTTTGGCCTC TTTCTCGTG AAGACGATGT 120

GTCCCCGTCA GAAAAAGTGG GCTCCNTCTG CAGCCCCGTG AGCTGAGCCC AGGCTGCGTA 180

GTGACCACAA GCTTATGTGN AGCACTGCTC AGGGAGGNTN TCAGGAATTC CCCTCACCTC 240

GGAAAGGANC TTCTCAGTTT TTATTGGGGG TGTNTAAATT TNCITNCATA TNGTTCATN 299

SEQ ID NO:5940

SEQUENCE LENGTH:186

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07053

SEQUENCE DESCRIPTION:

5 GATCCTTCAG GCAGTAAGGG AGAGTTTTGC CTCCTTACAC AGTGGCCTTT GCTTGACCT 60
 CCAGCTGGAG ATGGGTGTGC CCCAGAAGTA AGCTTTGCAT CTCTTACAAG AGGGGAGCTA 120
 CAGGGGCAGC CGTGGCCTAG GCCCAAAC TC TGTCTGAGA AAATAAATAT CTGTACCACC 180
 TGTAAA 186

10

SEQ ID NO:5941

SEQUENCE LENGTH:195

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15

CLONE:HUMGS07054

SEQUENCE DESCRIPTION:

20 GATCCGGTNA TGGTCTGGGC AGAGGCTGGG TCAGGAGTCC CAAAGGTCAG TGACAGTTTC 60
 TCAGAAGAGG CCCAGCGTCC ACCTCTCTCC CAGGGCCAGA CACCTCTTCC TGGCTCCCC 120
 ATCCCCCTAT GGGCTCCAG CNCCTGCAC CCTCATTGCT GNNMAGATTA AAGCCTCTGT 180
 TTTGCACCTG TCAA 195

SEQ ID NO:5942

SEQUENCE LENGTH:116

25

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07055

SEQUENCE DESCRIPTION:

30 GATCATTAC TGTITNGTT TAAAACTGG TCAGTACTAT GAAGCTTCTG TGGTTGTAT 60
 GATGTTTAA CTTTCACTTT AAAGTGCATA GAATAAATTA AATTGAAAAC ANCAA 116

SEQ ID NO:5943

SEQUENCE LENGTH:116

35

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07056

SEQUENCE DESCRIPTION:

40 GATCCGNAAG CNAGANACCC TGCAGGCTGG CGGGGACCCA NGGGAAGGC CTTCCAGGC 60
 CTTCTAACC CCTGTGGCC TGGACTTTCC TTGTNTGGAC TCACCCAGG CCTGNN 116

SEQ ID NO:5944

SEQUENCE LENGTH:179

45

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07057

SEQUENCE DESCRIPTION:

50 GATCATAATC ACTGCCTTAC CNNCCTCAG GTTGTNGTAA GGAAGTGTG TGTGGAAGTT 60
 TTTAATAAC TTTGATGCT AGTNTACTTA GGGGTGTNC CAGGTGTCTT TAATGGGGCC 120

55

TTCCAGACCC ACTCCCCACC CTTNTCCCT TCCTTTGCCC GGGNACGNCG AACTCTCTN 179

SEQ ID NO:5945

SEQUENCE LENGTH:166

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07058

SEQUENCE DESCRIPTION:

GATCTAGATT AGCAATATAA AGAAGCATAG TGGTACTCTG TTCACACTT TCAGTAGATT 60
TATTAGAAGT CAAATNCTAT TCAACAGACA CTTATTAGGA TATACAATA ATTTANGAAT 120
AAAATTCCAG GCACAATATA TTTNNNTNAA NTGGTATTG TNAGTN 166

SEQ ID NO:5946

SEQUENCE LENGTH:230

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07059

SEQUENCE DESCRIPTION:

GATCTTTTGT GACTACAACT TCTNTTGTA ATAATGATAT ATGGTATTNC CATCGTCAGT 60
TACCGAGTAT AGCCACTGGG TATCACTACT TTGTGTTAAA GTGCCCTTCGC ACTTTAAGTA 120
CATTACTTAA ATGTTGCTTT TAGCTTTGAT AAATTGAAAA TATTNAATG GGNNGGGGNN 180
TTGAAATTGA AAACACTGTA AAATAGGTTG GNGTGTGAGC NNTATTANGN 230

SEQ ID NO:5947

SEQUENCE LENGTH:177

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07060

SEQUENCE DESCRIPTION:

GATCCGCCTA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCATGCCAG 60
CCAGNGATTT AATTNTAAT AACTAATTN AGGGCACAAT TTGACCTCCA TTGNCAGCCT 120
GTTTGTATTA CTTAATGTGA ATATNTGTGT GTTTTGCCAN GGGNTATTGA NGTATTN 177

SEQ ID NO:5948

SEQUENCE LENGTH:96

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07061

SEQUENCE DESCRIPTION:

GATCTCCAGG CCCAGCCTGG CCCCAAATAT TCTTTCCTTT CATCCTCAGC AAGTGCTGAG 60
TCTGTGAATA AAGCCACATA ACCAGCGGGC ACTAAA 96

SEQ ID NO:5949

SEQUENCE LENGTH:191

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07062

SEQUENCE DESCRIPTION:

5 GATCATAAAG CCACCGGCCA CTGCCACGCA TGTTCACCT GTGCCATCGT GTCCTCCTCT 60
 GATGGGCACC GTGGTGGAGG AAGTCACCCA GCTGTTTCTC AGTCCCAGAG GCCGGTGGCT 120
 GGTITTAAC TTGTGTTGAC TGTGATACT TATTACTGT ATAAATATAA TTNATCATT 180
 GTACCATGAA A 191

10

SEQ ID NO:5950

SEQUENCE LENGTH:109

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15

CLONE:HUMGS07063

SEQUENCE DESCRIPTION:

GATCCAACTG GGAGAACCTC AGCCAATGCT GGAAGNATGA TTGAAGTACC TCTCTTTNT 60
 NACTCTTGT A CAGCTTAATG TGCAATAAAG GAAAAGTTAT ATCTGTAAA 109

20

SEQ ID NO:5951

SEQUENCE LENGTH:216

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25

CLONE:HUMGS07065

SEQUENCE DESCRIPTION:

30 GATCGACCTG AAACCTCTCA CCAAAGTNCT CGNNCCGGAG CACGAAGTCC GGGAGGATGA 60
 TGTGCACTGG GACTGGGACC ATCTGTTTAC TGAGGTGTCC TTAGAGGTCC TCACTGAGTG 120
 GGACCCACTG CAGACGGAGA AGGAGNACCC TCGNGGCAG GCCATNCACA CCTNAGCCCG 180
 TCACCCATGC TCTAGACATN AAGAANTGCA ANGGGN 216

30

SEQ ID NO:5952

SEQUENCE LENGTH:192

35

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07066

SEQUENCE DESCRIPTION:

40 GATCCACCAA AATAAATGAT TTTCTACATT TTCATTTGGA CTAAATCCCA CGAATGACAA 60
 CTACCACCTT TTTTCCTTT TTAATTAATA CTAAATATTG TGATTCTTA TTTGAGGTTT 120
 AAAATGACCT GCTTGAAACT TTGATACATA TTGAATACA TTATGTTAAT AAACCTGTAG 180
 CTTTTTGTGA AA 192

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45

SEQ ID NO:5953

SEQUENCE LENGTH:298

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07067

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SEQUENCE DESCRIPTION:

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5 GATCACACCC TGAACAATT GGNNGATTGC TTGCTGCCCT GCATCTTAAG GCGTATTCTA 60
 GCAGCAAAGC TTGTNATGCA CTGACTTGGG GCAAGTAAAA CTGATGCTGA GGACAAAGGG 120
 AGANGATGTT CCTCGCCCAG GGAAATNAAA ACTTTNCTNA TTCACCTTGC TTGTGCTTAA 180
 NCACCTATGT NCATCTAGTG TAGAATACAT GGCTACTTGT TTGTAATTNT NTNATTGGTG 240
 GAATTAAAGT AATTTCCCT TATCTTTGAN CTTTATTTA GAGAACTNAA ANAAAGCN 298

10 SEQ ID NO:5954
 SEQUENCE LENGTH:250
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07068
 SEQUENCE DESCRIPTION:
 15 GATCTNCAGG GGNATGTTT ACCATCTGNA TCCAGCCTCC TGCTAACTCC TAGCTGACTC 60
 AGCATAGATT GTATAAANTA CCTTTGTAAAC GGCTCTTAGC ACACCTCACAG ATGTTTGAGG 120
 CTTTCAGAAAG CTCTTCTAAA AAATGATACA CACCTTTCAC AAGGGCAAAC TTTTCCTTT 180
 TTCCCTGTGT ATTCTAGTGA ATGAANTCTC AAGANTCAGT AGANCNAATG ACNTTGGNAT 240
 20 GTAATGNTNN 250

25 SEQ ID NO:5955
 SEQUENCE LENGTH:135
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07069
 SEQUENCE DESCRIPTION:
 GATCCGTNAA TNCNCGGAAT GGCAGGGGAA GCCTTGCACT AGGTTGCAGA GAAGCATCCT 60
 CCACATCTG TGTCAGAAAC CCTGGTCTCC GTGGCACTTG TAACTACCG TNCTGTCTNC 120
 30 TGGTCTGTNT GTGTN 135

35 SEQ ID NO:5956
 SEQUENCE LENGTH:193
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07071
 SEQUENCE DESCRIPTION:
 GATCTAGAAT TGACATTTTG CCTTCTTGT TCCAGGTGTT TCTATTTTT CTATCTTTC 60
 40 AGAGAAATCT CATATTCGG TGTATTTATT GCTGTACTA CTATATTAC TGCTGAAAAC 120
 TGTAACAACC TGAAGATTG TAAATGTTA AACATAGTTC ATTAATAATA ATAAATAAA 180
 TCTAAATGT AAA 193

45 SEQ ID NO:5957
 SEQUENCE LENGTH:273
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07072
 50 SEQUENCE DESCRIPTION:

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5
 GATCCTCCAA AGGCCTGCCC CATGNATTTA ACAGTAATAC AGGAAGCATG GCAGGCACCA 60
 TGCAAAACCA GATGGATGG TGCAGTCCCT GTGTCAGTGG GCGGTGGTTT CCTGCTGGCC 120
 TGGAATCACT CATCACCTGA TTGATTGGCT CTGTGGTCCT GGGCAGGTGC CTCATAGGTG 180
 TGTGGNTATG ATGACGTTTC NNTAAAATGT ATGTNTTTAA CANATACTNA ATNGTATTAN 240
 GGTCATGTAC CAATGGNTTT NATAATGTTT NTN 273

10
 SEQ ID NO:5958
 SEQUENCE LENGTH:108
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07074
 SEQUENCE DESCRIPTION:
 15
 GATCAGAAAG NATTAAATAT CACTACCACA TGAGTTAAAA CAAAAATGG AATAAAAAANC 60
 AAAAGTGGTG TCTATGTTAT CAGTGGNTTA CTTGATAGGN CATTNAN 108

20
 SEQ ID NO:5959
 SEQUENCE LENGTH:256
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07075
 SEQUENCE DESCRIPTION:
 25
 GATCTTCACA AGGNTTGTAT TGGCCACATC CACGTCCTCC GAGCCTACAT CAAGACCCAA 60
 GTGAACAAAG AGCTGGAGCA GCTCCAGGGG CTGGTGGAGG AGCGGCTCAA GGCCAGCGAG 120
 GAAAGGCTCA GCAGCAAGTT GACTGCACTA GAGCGGCCCT TCCAGCTACC TCCGGGTAAA 180
 GGCAAGAGCA AGACCAAGTG ACCCCAACA TTTCCCAA TAAAGGTCG GGCCAGANTG 240
 GCACCATCCC TGCAAA 256
 30

35
 SEQ ID NO:5960
 SEQUENCE LENGTH:262
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07076
 SEQUENCE DESCRIPTION:
 40
 GATCTAGTCA TCTGGTTAAG GATTTTAAGC AGATGCAACT ATAAACCCAA GAAACTGTAT 60
 TACTATTACT GTTGGTCATA CTAAACCTGT CTATTTCTG AAGTATATGA CCCACAAGGA 120
 TGTGGAATAA CTAGGAGAAA CTGTTTTTGT ACACTGTACA TCCTTAGTAT TTTTACAGT 180
 ATATGATAGG GATGAACATG ATTTNCTTC GTACAGACAG CTTANNTAAN GCACATATGC 240
 ANTCTGCAAA ANAGNNNNN NN 262

45
 SEQ ID NO:5961
 SEQUENCE LENGTH:295
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07079
 SEQUENCE DESCRIPTION:
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GATCTCAGCT CACTGCAACT NNTGCCACCT GGGCTTAAGC CATCTCCCA CTCAGCATC 60
 CCAAATAGCT GGGACTGCAG GCACACACCA CCACACCCAG CTAATTTTNG TATTTTGT 120
 AGAGACGGGA TTTCACCATG TTGCCCAGGC TGGTGTGAA CTCATGAGCT CAAGTAATCT 180
 GNTGGCCTTG GCCTCCCAAA GTGCTGAGAT TATAGGCGTG AGCACTGCAT CCAGCTCACT 240
 CCTNATTTCT TTCTAGCCCC AAAGGGGTTG AGTCAGCAAA TCCTNCAGCC TTTN 295

SEQ ID NO:5962

SEQUENCE LENGTH:272

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07080

SEQUENCE DESCRIPTION:

GATCCTGGAA TGTGTGCTGG AGAAATTTAA AATACNGGGG TTTTNTTTT AATGGTGCCT 60
 ATTTAGAGTT GGAAGTTGAA CAGCTGTTGC ATTACATACT TTTCCTTTT NATTGAAATT 120
 TTGAAATCAA ACGTCTTGAT TTTCCTNTCC TGTGGAATTG CTATGTNCAG GATGTCCTAG 180
 GGGGTGGGGG CAGGGACTCT TTTCGTAATA AGCACTTGTN TTATNTGGTG TGTGTGGNGT 240
 ATAAANGGCT ACACCTTAT TNTAAAAANN NN 272

SEQ ID NO:5963

SEQUENCE LENGTH:91

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07081

SEQUENCE DESCRIPTION:

GATCTGTCGT CTCAAAAAA ATGGCAAAGT GGGAAATGTG GGAGGGGAAA ACACTTCAGA 60
 ATAAAAAGAGA TTAAAGAGAT GTATCAACAA A 91

SEQ ID NO:5964

SEQUENCE LENGTH:194

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07082

SEQUENCE DESCRIPTION:

GATCAGGTTG TCTGCATTTG TTGGTGTAAG TGAACATCAT CACAGTTATC CTGAGTTGAG 60
 TTTAAGCCAA ATANATGCAT AGAAAAGGT CTCCTATTA ATGGAAGANG GTAATTTTAA 120
 GGATGTGTAT TATTTAGTT TTGTATGTTT AACTNTNATT NAATAAAGTG TTTTAAAAAT 180
 CNCAAAAATN ANNN 194

SEQ ID NO:5965

SEQUENCE LENGTH:266

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07083

SEQUENCE DESCRIPTION:

GATCTGCCTG AAGAAAATAT CTGTTTCTA TATAAAAAA TTTTAAAAA TAATTGTAAA 60

GTTAGATTTA AAATTGTAAA ATATAAAATC ACAAAGGAAT GTACCTTATG AATGTTGTTG 120
 ACATTTTATG AAATTATGTG GATTTCATATT ACTGTTACAA GATAGANTTG AATGCAAAAA 180
 GTCCAAAACC TCAATAAANT TTGAGGAAAA CGTGTATTATG TGTAAATTGAN NTANAANCAT 240
 TTTATAATTG TGCANGTNAN NNNNAN 266

SEQ ID NO:5966

SEQUENCE LENGTH:256

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07084

SEQUENCE DESCRIPTION:

GATCCTTTTN AGTTTTTCCA GGTGAGAAAT CCTATCAATT ATGTNATAAT NATATGTTTT 60
 CCTNTTCAAA ATTTATAACA TAATTCCTGA CTGCATGGGT TAAACATTN CATAACAGTG 120
 CTAATAATA AAGGTGGCAG TGGCATTITT GTCTTGTTTC TCATTTTAGC CAGAATGTGT 180
 TTGCTACAGC AATTCCAAAT TGTGTTTTGT GAAAAANAAA TATTCTNCTT NGGAGACANG 240
 GNNTNTACAT TTGCAN 256

SEQ ID NO:5967

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07085

SEQUENCE DESCRIPTION:

GATCAGAACA GGCTTAAAT GATGCTATAG AACCAATTAC TCTGTATTAT CTTTGCAACT 60
 CTTTTGTAAG TCTAAAATTG TTTGGNAATA AAAGTTTATT TTAAANNNTA AAAAAANNN 119

SEQ ID NO:5968

SEQUENCE LENGTH:146

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07086

SEQUENCE DESCRIPTION:

GATCTTCTAA TCGACAATCT ACATCATAGT GACCACCAGT AATCACCTGT AAGAGATTAA 60
 AAAAGAAAAA TCACTGTGAA AAGTGTGAAA AATTAATCAG ATTTAATCAG ATTTCTTATT 120
 AAAATGGCAA TAAGGTGATG GGCAA 146

SEQ ID NO:5969

SEQUENCE LENGTH:203

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07087

SEQUENCE DESCRIPTION:

GATCTGGTTA AGTGTGCGGC ATCTCATCCC CCACTCTNTC CCTTCTTGCT CCTGCTTCCC 60
 CCTTATNACT TGCCAGCTCC TGCTTCACCT TCCACCATGA GTAAAAGCTC CCTGAGGCCT 120
 CCCCAGAAGC CAAGCAGATG CCAACACCAC GCTTCCTGCA GCCTGCAGAN CTGTGAACCA 180

ATTAAACCTC TTTTCTTTAT AAA

203

SEQ ID NO:5970

SEQUENCE LENGTH:72

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07088

SEQUENCE DESCRIPTION:

GATCTTCCAA AAATTATTATA AGTGTTTACT TTAAAGTGG AAACAATGTT TTAAAGAGGT 60
 GATATAAAGA AA 72

SEQ ID NO:5971

SEQUENCE LENGTH:106

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07089

SEQUENCE DESCRIPTION:

GATCCTAGC TTGTTTCTG TCAGTCATNC ATTGTAAGTA GCACATNGCA ACAACAATCA 60
 TGCTTATGAN CAATACAGTC ACTAGGTNTT AGTTTNTTTT AAATAN 106

SEQ ID NO:5972

SEQUENCE LENGTH:212

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07091

SEQUENCE DESCRIPTION:

GATCTGTGTG ACTGATGGGC AGGGCTCAAT GATGCCCAT GAACTGAGCT TACTGCTCAC 60
 ACCACTGACC TGGACCCNAA CAAAAAGCTG ATTGTCTTTT TAAAAGTTAT TATTTTGCCC 120
 TGAGCAAATT GCATTTTANT TGGGGCAGTT GGAGTGTGA NTTCTGGCA GCATTGTGAA 180
 GNNGACCNNG GTGGANGTTT NCTGTCCCNNG GN 212

SEQ ID NO:5973

SEQUENCE LENGTH:215

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07093

SEQUENCE DESCRIPTION:

GATCTACCCA CCTTGGCATC CTAAAGTGCT GGGATTACAG GCGTGANTAC CAAGCCCGGC 60
 TTTTTTGTGTT TTGACATGGA GTTTCGNTCT TGTACCCAG GCAGGAGTGC AGTGGCGTTA 120
 TCTNGGTTCA CTGCAACATN CGCCTCCTGG NITCAAGTGA TTCTCCTGCC TGAGCCTCCC 180
 ANGNACCTGG GNTTACAGGT GCTCCNACCA AGNTN 215

SEQ ID NO:5974

SEQUENCE LENGTH:140

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear
 CLONE:HUMGS07094
 SEQUENCE DESCRIPTION:
 5 GATCTGGAGG TTTACAGAAG CCTTACCCA TCCTGAGACT CAGTTCTGCT GTTGGTCTNC 60
 AGAGAAGTGT CTGCACCTGC TGAGANGNAA TCACACCACT GCACTCTAGA CTGGGCAACA 120
 GNGCGAGACT CTGTCTCAAA 140

10 SEQ ID NO:5975
 SEQUENCE LENGTH:133
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07095
 15 SEQUENCE DESCRIPTION:
 GATCTGTTGA AGAACTCAGC TGCTGGAAAC CATGCAAAAT GTTTTGAATT GCCCTTAAAA 60
 TATGGAATAA GTTTTCTGAA TGCTTTATAT TCTTCTGCT GTAAATTAAA AATGANGAAA 120
 ATTTCCCAT AAA 133

20 SEQ ID NO:5976
 SEQUENCE LENGTH:144
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 25 CLONE:HUMGS07096
 SEQUENCE DESCRIPTION:
 GATCCCTGCC CTTGGCACA TCCACTGAAA GGCCAAACAG CAAGTCCGAG TGAGTTTAA 60
 ATATTAAATA ATCACCCTTT ATTTTITACA CTTGAGAGTG ATTGTAATAA AGGCTGTCAT 120
 TAATAAACTT GGTCTACCT TAAA 144

30 SEQ ID NO:5977
 SEQUENCE LENGTH:114
 SEQUENCE TYPE:nucleic acid
 35 TOPOLOGY:linear
 CLONE:HUMGS07097
 SEQUENCE DESCRIPTION:
 GATCTAGAAA TTGCCCTCCT TTTACCCCTA CCATGAGCCC TACCAAAACC AAACCTTANCC 60
 CTGGGCAACT AANTAAGGTT ATTGGACATN CCCTTCTNAA TTAATNATCC AATN 114

40 SEQ ID NO:5978
 SEQUENCE LENGTH:112
 SEQUENCE TYPE:nucleic acid
 45 TOPOLOGY:linear
 CLONE:HUMGS07098
 SEQUENCE DESCRIPTION:
 GATCTGACTT CAGACAGAAA CCAATACCAG CTTCTTTTC CTTTAAACNT TTGAAGAGTG 60
 TTGATTTGTT ACTATATTAC GTATGCAAAA CTGGAGAGNG TATNGNTNGA TN 112

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 55

SEQ ID NO:5979

SEQUENCE LENGTH:131

SEQUENCE TYPE:nucleic acid

5

TOPOLOGY:linear

CLONE:HUMGS07099

SEQUENCE DESCRIPTION:

GATCCGTCCTC TAACAACTA GGAGGCGTCC TTGCCCTATT ACTATCCATC CGTCAATCCG 60
 TAGCAATAAT CCCCATCCTN CGATTATATC CAAACAACAG ANGCAATTGAT ATNNTNGCCC 120
 NACGTAAGGG N 131

SEQ ID NO:5980

SEQUENCE LENGTH:126

15

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07100

SEQUENCE DESCRIPTION:

GATCATGTAG GACGNGGCAT CCTGCCCCTG GTAGAGAGGA CGAATNTTCC AAAACANTGG 60
 GCTCTACGGN AAAAAGAAGT AGGTTAGTCA CCTTCTGGAC CCTGTCTAAC TCGTTTGCTN 120
 AANAGN 126

SEQ ID NO:5981

25

SEQUENCE LENGTH:79

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07101

SEQUENCE DESCRIPTION:

GATCTTATTT AACCAAGAC TATTTTCATC CTGATATGAT TTGTGTGCTT GATTAATAATG 60
 GNANTTAATG ATATTGAAA 79

SEQ ID NO:5982

35

SEQUENCE LENGTH:271

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07102

SEQUENCE DESCRIPTION:

GATCAACAGG CTTATTAGAA GAATGAACTA AGGTGAGAGA CCTCATCCTG AGAAAGGTTG 60
 AGTTAATGTT AGAGTATAAG TGGTGGTAAT CTTGAATACT TTTCCCATTA AATATTGATG 120
 GGGGTTTGAN TTTTAATCAG TGCTTTTNTG GGNAGTGGGG GTCAACTATC TTAATGATTA 180
 CAGTTGGTTT GTTTACTGCT TTTGAGGACC TTTCTGGAGG AAAGGAAAAG CCTGTTTTGG 240
 GGAGTCTTTA AAGATGGAAA TTGGGTGGTC N 271

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SEQ ID NO:5983

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

55

CLONE:HUMGS07103

SEQUENCE DESCRIPTION:

5 GATCAATATG TGAAGGAAAC CATTGGCGAG GATGAAGATT TGATAAAGTG GAAGGCACTG 60
TTTGAGGAAG TCCCTGAGTT ACTCACTGAG GCAGAGGAGG ANGNATTGGN TTNNGAACCT 120
GCNTN 125

SEQ ID NO:5984

SEQUENCE LENGTH:73

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07104

SEQUENCE DESCRIPTION:

15 GATCTNATTG TATTGTCGAA GGACTATTTT TNAACCTGTC CAAATAAACT CTGCAAAGNA 60
TTTCCACAAG AAA 73

SEQ ID NO:5985

SEQUENCE LENGTH:331

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07105

SEQUENCE DESCRIPTION:

25 GATCCTGCCC TGCTCTCAGC CATAGTGAAG GACCAGCCCT AGGAGTCTGC GAGAGCCTCC 60
TTGGTTCCAT CGTGAAGCCA TAAACAGGAA TGCCCTTGGC AATAGCCTTG AGCCTAGAGG 120
GCCCTCTNAT GCCCCACTGA GGTGCTGTTG GTTTATTGCT GGCANCGTGA ATTCTCTCAG 180
GGGTCTAGGA GGGGCATTTT GGAGACTGCC TGACANCACC NCTATCCCCT GCCTCCCN 240
CTNAGAAGAG GGTGGAAGNA TGAAATGAAA GCTATGGGNC TTTTGGGAGG NTAACCCAGN 300
30 GTCTATTCTA GGGTTNGNGG AAGTGNNTAA N 331

SEQ ID NO:5986

SEQUENCE LENGTH:107

35 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07106

SEQUENCE DESCRIPTION:

40 GATCCCCTGG CCTGGTGCCC ACACTGCCTC GCAAGCGCTC GCCACCCTCA CGTGGCTCAC 60
CTGCTGTTGA GCCTTGTGCT GTCAATAAAC GGTGTGAGGA TTGCAAA 107

SEQ ID NO:5987

SEQUENCE LENGTH:83

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07108

SEQUENCE DESCRIPTION:

50 GATCAGATAT ATCCACAACG NGTTTAAGAT TTTCAATATT CTTAGAGAAA ATCAATAAAG 60
TCAATAACTA CTCCACCATG AAA 83

55

SEQ ID NO:5988

SEQUENCE LENGTH:157

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07110

SEQUENCE DESCRIPTION:

GATCAAAAAT TGTGGACATA TCTGCAAATN ACTACCTATA GCCTCATGAA AGTACATTTC 60
 ACAAATGTA AANNCAATG AACACTAAAT TTAAGAGCAG TTACAGTGTG ACTCACTCAT 120
 GTTAAAAAA ANTCGGNGAG CTAAAAANTA CGTCTAN 157

SEQ ID NO:5989

SEQUENCE LENGTH:280

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07111

SEQUENCE DESCRIPTION:

GATCGAGTCT GCTCTGACCT CTCAATCTCC TTCTCTCCCC AGGCTGCTGC TCCTGCTGCC 60
 CTGTGGGCTG TGCCAAGTGT GCCCAGGGCT GCATCTGCAA AGGGGCATCG GAGAAGTGCA 120
 GCTGCTGCCG CTGATGTCGG GACAGCCCTG CTCCAAGTA CAAATAGAGT GACCCGTAAA 180
 ATCCAGGATT TTTGTTTTT TGCTACAATC TTGACCCCTT TGCTACATTC CTTTTTINCT 240
 GTGAAATATG TGAATAATAA TTAACACTT AGACTTGAAA 280

SEQ ID NO:5990

SEQUENCE LENGTH:205

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07112

SEQUENCE DESCRIPTION:

GATCTCCAAG CAGGAATATG AGGAGGGCGG GAAGCAGTGC GTGGAGCGAA AGTNCCCCTG 60
 ATGGCACTCC TCCCCACACA CCTGCTCCCA AGCTCAGATG GAAGTCCCTT AACCCCCATG 120
 CCACATTGCC CCCCTCCTCC TTCCCTCTT GTCCTCATT ATGGTGATGT TTCTGGGTTG 180
 AAAGAAGTAA AAATGTTTTA AGAAA 205

SEQ ID NO:5991

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07113

SEQUENCE DESCRIPTION:

GATCTTTAGC AGTCTCTTCT AGTTCCCTG GATTTCAGTG ATTTATTANT TAGGGAAAAAT 60
 GAAAAGAGGA CCTTCTGTG CGCCTGCACT GCTTACTGGT AAATAATAAC AAATTATGC 120
 TGCCAAA 127

SEQ ID NO:5992

SEQUENCE LENGTH:240

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07114

SEQUENCE DESCRIPTION:

GATCGCTTGA GCCTGGGTAG AGGCTGCTGT GAGCTGAAAT GGCGCCNCTG CACTCCAGCC 60
 TGGGTAACAG AGCGAGNCCC CGACTCAATA AATAAATAAG GATGGATAAA TTGTAGCGTA 120
 TGCACCATTC ATTATGCTAA GACATTTTAA AGTAATTATG AGAAACGCTC TACTAATGAT 180
 TTGTTTTTAT TTGTATTTTN CTGCTTATTA GACAAATATA TNCTCATTTT AAAANGGAAA 240

SEQ ID NO:5993

SEQUENCE LENGTH:328

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07115

SEQUENCE DESCRIPTION:

GATCAGAACG AGCTGTTAGA ATTCAAGAGT CTAGAACTCG AAGTAAGAGA CTCTATCTGT 60
 TGTAACCTCT CAAACGGAGC AGACATTCTC TTTGAACCCA AACTGAAATT CATGTAAAGC 120
 TCTCAGATGT TTTCAAGCAT GTGTAAAGGG GACATGTTAT AGTTTCTTTC TTTCTTCTT 180
 TCTNTNTTTT TTTAAANCTG TATGTNCAGA ATANTTNCNC TGCCTTAATG TGTNCTGGNG 240
 AGCGTGCTCA CCCAGGNCTN TGGCCATGTN CCAGAGCTAA TATATTTNTT GCCTATGGCT 300
 TNGTNTGGCA CTTAATGAAT ANTTGTGN 328

SEQ ID NO:5994

SEQUENCE LENGTH:250

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07116

SEQUENCE DESCRIPTION:

GATCTTCAAA ATCCAGGAGG GAACCGAGAT AACACAAGTA CAGGTGTGCA AAATTACTTA 60
 GTAAACTAT TTNTTCTATT ACTCCTTTT TGCAAGTACA TACATTAAAT GATAANTTNA 120
 TTGTGAAGTT AATAAANTGC CCATAGCTGT TCTATTACCT TCAGAACTA TTTTCATAAT 180
 TGANAAANAC TTGGNGTAAG TACATGTGTT ATATANCACC TACCCTAGNT GCTCAAGTGC 240
 GTNNNGGAGN 250

SEQ ID NO:5995

SEQUENCE LENGTH:132

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07117

SEQUENCE DESCRIPTION:

GATCCTCCTT CCTCAGCTAC TCAGGAGGCT GAGGCAGNG AATGGCATGA ACCCAGGAGG 60
 CAGAGCTTGC AGGAGGCCAA GATTGTGCCA TGGCACTCCA GCCTCGGCCA CAGAGCAAGA 120
 CTCCGTCTCA AA 132

SEQ ID NO:5996

SEQUENCE LENGTH:78

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07118

SEQUENCE DESCRIPTION:

GATCCTATAG GGAGGNCATT TCCTGTCCTG GAATTAGTAT TTCTAAAATG TGNATAAACT 60

TGTTTTATAA AAAGCAAA 78

SEQ ID NO:5997

SEQUENCE LENGTH:118

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07119

SEQUENCE DESCRIPTION:

GATCAGAAAG TGTTATTAA CAGAACTAC ATACATTTT NATGTCTCTC TGGACCCCTT 60

GATTCTAAGT AAATTNCAG TAAGTNAGCA GTAATAGACT ATCCTNTTCA NCTATGAN 118

SEQ ID NO:5998

SEQUENCE LENGTH:60

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07120

SEQUENCE DESCRIPTION:

GATCAAAAAG AGGAACTTG AAATGTGATG GTGTTTATAA TAAAAGATGG TAAAACTAAA 60

SEQ ID NO:5999

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07121

SEQUENCE DESCRIPTION:

GATCTCCTTC AGAATTTTGG TCTTGACTTT GAATCTTTC CTGTTTGTCT AAACATTGA 60

CTAACATTCT GTTTGAATTT GGAAGTATTC TAATACAAGA TTTGAATAAA GTTTATCCTT 120

AAATAAA 127

SEQ ID NO:6000

SEQUENCE LENGTH:195

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07122

SEQUENCE DESCRIPTION:

GATCCTGGAG CTGGAGCATG AGTGTCTGAC AATCAGAAGC ATGATGTCCA ATGTCNNGAT 60

GGCCAGAATG AATGTAATAG TTCAGACCAA TGCCTGNCCA CTGCTCCTTT ATGACTGCAC 120

TTCTAGCCAG TAGCTCTGCA CAAGTNAGCT CTGTAGAAGT AGGANCTTGG GCTTAAGTCN 180

TGNGCTNTNT CTCCN

195

SEQ ID NO:6001

SEQUENCE LENGTH:156

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07123

SEQUENCE DESCRIPTION:

GATCCCAGCA TGGGGTGAGC ATGAAAGAGT GGCAAACAGA GTGGCATAAG ACAGATAAAA 60
 TACAAAAGGC AATTACAAA GGACCAGGAC CGCAGAGGCA GAGATAAACC AGTGGGCTCA 120
 GACTTCTGAG CGTCTCAGAN AAANNNAAN AAANN 156

SEQ ID NO:6002

SEQUENCE LENGTH:177

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07124

SEQUENCE DESCRIPTION:

GATCTGTCTA GCTTATTAAA GATGAAACTG AATTGGAAAA ATAGCTCCAT TTTTGGGTGC 60
 TTGGGAAGCA CAGTGACCAA AAAAGTTGTA TGGCTGCTTA TTCATTAGTC TTTCTACTG 120
 ATGTCAAATC CATGGTACCT AGAGTTAAAT AAAATTCCAA TGCTCTTACT CTTTAAA 177

SEQ ID NO:6003

SEQUENCE LENGTH:305

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07125

SEQUENCE DESCRIPTION:

GATCCAGTTG GGAATAAGTG ACATCGTATC GGTTCCTGTT CAGATGACAT GGGGAAGATG 60
 ATGGTTCAGC CACTGGTACT ACGAGAATGT TTGTATTACC CACATTGAA TTNATTGCT 120
 ATGATTTTNA TGAAGATTAA AAATATATAC ACAGTTCCTG GTATGTTGAG GTTGTCTTTA 180
 TTATTCTTAC TCAGAAAGGA AAATTTGTAA ATATGTTTGT GTGGCTCAA CTGATACTAT 240
 TCTTACANCT GGANCATTGA AAATNCAGAG GGCTGTATTT GGNTATTAGN GAGGNCCTCG 300
 AATGN 305

SEQ ID NO:6004

SEQUENCE LENGTH:307

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07126

SEQUENCE DESCRIPTION:

GATCCTCAGG CTGGTATACG GCGCAATGTT GCATCAGCTN TGGGCAACTT GGGNCCTGAA 60
 GGTTTGGGAG AGGAGCTGTT ACAGTGCAGG GTACCCAGC GGCTCCTAGA AATGGCATNT 120
 GGAGACCCTC AGCCAAATGT GAAGNAGGCT GCCCTCATTG CCCTCCGGAG CCTGCAACAG 180
 GAGCCTGNCA TCCATCAGGT ACTGGTGTNC CTGGGTGCCA GTGAGAACT ATCCTTGCTC 240

TCTNTGGGGG GNTCAGTCAC TGCCACACAG CAGTNCCTAGG CCTTGNCTGT GCCAAAACAA 300
TTGNANN 307

5 SEQ ID NO:6005
SEQUENCE LENGTH:215
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS07127
SEQUENCE DESCRIPTION:
GATCTCTCTC CGGCCCCCTA GAAGCCCTCT CCTCACTGCA GCCCTGGTGC TCTGGGGAAG 60
GAGGGGCATT GACAGGTGGT TTGACTGTTT ACCCAGCAGC CCCGCTTCCC CACTGGTTTC 120
TCTCTGGCT GCCGGCGGNG GTAGGCTGGG AAAGCTTCCC CNTCACCTAG GNCGGGCCAG 180
15 CACCGGCCNG GGCNNAAGA GGTCCNCTNN ATCCN 215

SEQ ID NO:6006
SEQUENCE LENGTH:273
SEQUENCE TYPE:nucleic acid
20 TOPOLOGY:linear
CLONE:HUMGS07128
SEQUENCE DESCRIPTION:
GATCCGAGGG GAAATNTTTA GAGCCCTCAG GAGGAGGAAG AGACCGAGTT TTAGGAAAAA 60
25 CATCAAAGCT GGATAGGTTG GGCAGAAGAG CTGGGGATAG CATTAGAGA GGCTGAGAGT 120
CCTGGGTTCT GGNTTATCAC GTGTGAGNGA AACNGGAGGT TGCTANTTGT AGGTGGGCGT 180
CAGGCTNGA GTGNTGCTTC CAGANGTTTC TGCAAGTGGG CCGGGTCTAA GNTAGGGCAT 240
GTTACGCCAG ANGTTNAGG GNCCTAGGT AGN 273

30 SEQ ID NO:6007
SEQUENCE LENGTH:250
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
35 CLONE:HUMGS07129
SEQUENCE DESCRIPTION:
GATCACAGGG AAAAACCGAC CGAGCTCAGG AAGCCTAATC CAGGTGGTAA CCACAGAAGG 60
AAGGACGGAA CTCACCCAG CATATTTTGA GGCCTCATCT CAGTGCCTAT NAGGGGCCCTG 120
CCAGNAAGGT CACTAACCTG GTCTCAGTGT GGCCTTGTCC AGCCTTGTGT TTNCTGTAA 180
40 CCCCNTTTG TGGTACGAGN TATTGNNTCC TATATTACGG ANACAGANCC NTGNTTTCGG 240
NTTTTGCATN 250

45 SEQ ID NO:6008
SEQUENCE LENGTH:106
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07130
SEQUENCE DESCRIPTION:
50 GATCCAGTN AGTCATGAGC CTCAACCCCC TCCAGCCAC TGGGGCTCTN ACCTCCACAT 60

55

GTGGGTAGAA GCTTNCCTGC CCCCTTTNCC TCCAGGAAGC CCTNAN

106

SEQ ID NO:6009

SEQUENCE LENGTH:108

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07131

SEQUENCE DESCRIPTION:

GATCGCCTGA GCCCATGAGG CCAAGGCTGC AGTGAGCCAT GGTACGCCA CTGNATTCCA 60
 GCCTGAGTGA CAGAGCAAGA CCCTGTTGAA AACAACAACA ACANCAAA 108

SEQ ID NO:6010

SEQUENCE LENGTH:335

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07132

SEQUENCE DESCRIPTION:

GATCTAAAAC TATTTTCTG TATAAATATT ATTTGCCGAA AGTTTGTTTA TATTNAGAAG 60
 TCTGACTATG ATGAATAAAT CTAAATGCT TTGTTTAATT GAAAAACAAA AATCACCAT 120
 ATCCAAGACA TGAAGATATC AGTTCAACAA ATACTGTAGT TANGNGACTA NCTCTCCACT 180
 TNTATGGGAA CTACATTTCA CTCCTGGTTT TCAGGATATA GCAGCACTTC ACCGAGATAT 240
 TCTTTCAGCC ATANCACTGG TAACATTTCT NCTNAATCTN TCTGTAGCAC TTANAGGANT 300
 TCCCTCATTC GNTNCCTTTC AGTGTNNCG GGNGN 335

SEQ ID NO:6011

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07133

SEQUENCE DESCRIPTION:

GATCCAAAGT AGCTGGGATT ACAGNCATGA TACCACANCA CAGTCATTG AATNTATCAT 60
 TACTTAGTAC TCNTATTTT TTCCCTGCTG CTCTTTATGC ANTGAAGTCC TN 112

SEQ ID NO:6012

SEQUENCE LENGTH:279

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07134

SEQUENCE DESCRIPTION:

GATCTCCTTT TGATTAAATT ATAGAGTTTT TGATTATATG TCTTTGTATG ANCTTTTATG 60
 TTATTGCTCA AATATCACAT TTNATATTTA TAACACAGGC TACTGATGTT GACATTTTAA 120
 CAGTTCAAGT GAAGTGTAGA AATCTTACCC ATTATCCCTC CCTATTAATN NNNTANTGGT 180
 CTAAATGTC TTTCCCTACA TATATTTNTA ACANGTATAT GAGATAGCCT TACAGTTTTG 240
 NCTTTAACTA TCAATCATGC ATTAGGNNAC TCAAGNGGN 279

SEQ ID NO:6013

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07135

SEQUENCE DESCRIPTION:

GATCTGGGAC TGGCAGGTTA TTAATCGAGA TACACTTGT AGGAGGGACA GGGTTCCCCT 60
AAGGCACTTT TAAAGATACT CTGTAAGAAC CATTACAAT AAACCTACTG TCAATCAAA 119

SEQ ID NO:6014

SEQUENCE LENGTH:315

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07136

SEQUENCE DESCRIPTION:

GATCGAGGTT GTTGCACAG ACCGTCTGGG GAAGAAGGTC CGCGTTAAAT GCAACACGGA 60
TGATACCATC GGGGACCTTA AGAAGCTGAT TGCAGCCCAA ACTGGTACCC GTTGGAAACA 120
GATTGTCTCT AAGAAGTGGT ACACGATTTT TGGGGACCAC GTGTCTCTGG GGGACTATGA 180
AATCCACGAT GGGATGAACC TGGAGCTTTA TTATCAATAG ATGAGAATGC TCATCTTCCT 240
GNTGNGGGNT TTNCTNTTCG NTNCTGGATN CNCCACACTG GGGNTAGATG CTTGNTTGT 300
AANNCTTNC CTTN 315

SEQ ID NO:6015

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07137

SEQUENCE DESCRIPTION:

GATCCTAAGT AGAACCAGGT AATTGTCTCT TTTTCTAATA AGGAATTTGG GTAATTTTNA 60
ATTTTNGTT TTTTAAAAA TAACCTAGAC TATGCAAAAC ATCAAAGTGA ATTTCCCATG 120
ANTGTTTTTA ATATTCTCAT CTCAACATTG TGATATATGC TACTAAAAAC CTTTNCATAT 180
ACATCTNACC TCATTTCAGG TGANTNATTN TAATCTNN 218

SEQ ID NO:6016

SEQUENCE LENGTH:53

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07138

SEQUENCE DESCRIPTION:

GATCAGAGCA GAACTAAATN AAATTAGAAT AAAGTTAAAC AATTAAAAAG AAA 53

SEQ ID NO:6017

SEQUENCE LENGTH:231

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07139

SEQUENCE DESCRIPTION:

5 GATCGACTTA TACCTATGCT AAAGTTAACG GTCTGAGAAG GTAGATTAGT GGTTCCTAG 60
 GGCTAGGGAG TGGGTTTGGG GGTGGGGAAT AGAAAAGTGAC TGGTCATGGT TATAGGCTTT 120
 TTTGTAGCAC CATAAAGATA GTTTAAAAAT AGATTGTGGT GGTGATTGCA CCACCCTATG 180
 ATTTGCATGG TATGTGANTT ATATCTTAAT AAAGCTGTTT AANANGTCAA A 231

10 SEQ ID NO:6018

SEQUENCE LENGTH:380

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07140

15 SEQUENCE DESCRIPTION:

GATCCGCTCC TAACCTGCGA CCGCAGCTGA CCTTCTCCTG CCACTAGCCC GNCCCTGNCC 60
 TTAACANACG GGATGAAGTT TCCTTTTCTG TCGCGGGCGC TGTTCCATA GGCAGAGCGG 120
 GTGTNAGACT GAGGATTTCG CTTCCCTCC AAGACGCTGG GGGTCTTGGC TGCTGCCTTA 180
 CTTNCNNGG GCTCCTGCTG ACTTCGGAGG GGC GGATGCA GAGCCAGGG NCCCCACCGG 240
 20 AAGATGTGTA CAGCTGGTCT TTA CTCCATC GGCAGGGCCC GAGCCAGGG ACCAGTGACT 300
 TNGGCCTGGA CCTNCCGGTC TAACTGCAAG CATCTTCCCC AGGGCAAAGG NTTNTGGGG 360
 GAACGNGAGG TTTNATNTTN 380

25 SEQ ID NO:6019

SEQUENCE LENGTH:107

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07141

30 SEQUENCE DESCRIPTION:

GATCTATTTT GTGTGTTTG AACTTAGGT GCAATNTCCC CTGGAAAAAG CTAAAGAAAT 60
 GTATATGTTT AATNACATTT TAAATAAAAA TATTATATAT ATGTAAA 107

35 SEQ ID NO:6020

SEQUENCE LENGTH:52

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07142

40 SEQUENCE DESCRIPTION:

GATCGATTG ATAAATTAA ACAAAGTGCT TTAAATGGAA AAAAAAAGA AA 52

45 SEQ ID NO:6021

SEQUENCE LENGTH:355

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07143

50 SEQUENCE DESCRIPTION:

GATCCACTGT AATAGTCCAG TTTGGGGTGC AGACAAGTGT GAAGAACTTC TGGAAAAGAC 60

55

5 AGTGAAAAAC TGCTTGCCCG TGGCTGTTGA TAAGAAGCTG AAATCCATTG CATTTCATC 120
 CATCGGCAGC GGCAGGAACG GTTTCCTAAA GCAGACAGCA GCTCAGCTGA TTCTGAAGGC 180
 CATCTCCAGT TACTTCGTGT CTACAATGTC CTCTCCNTC AAAACGGTGT ACTTCGTGCT 240
 TTTNGACAGC GAGAGTATAG GCATCTNTGT GCAGGANATG GCCAAGCTGN GCGCCGGNN 300
 NGGCTNGNGC AATGNCAGGA CCNGNTTGCA CCATGGTACC GNACCTTNA TTTNN 355

10 SEQ ID NO:6022
 SEQUENCE LENGTH:122
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07144
 SEQUENCE DESCRIPTION:
 15 GATCTTGAG CTNCTGGAGA AGCAGGCTG CNAGCTGCTC AACCGNTTC AGGACTAGCC 60
 CCGCAGGCT CGTGCACCAC CCGCTCTGG TGAATAAACG CACTCCCTGT GCCTCAGACA 120
 AA 122

20 SEQ ID NO:6023
 SEQUENCE LENGTH:162
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07145
 SEQUENCE DESCRIPTION:
 25 GATCCGATAA TGTACCATGT GCCTGCTGGT TTGGCCTGTG CTGTTCTGC TTTTGCCCC 60
 TNACTTCTG TGCTAGAGAA AGCCTTATTG GTGTTGGTGG TGGTGATGGG AGGAAAAGG 120
 GTGGTCTTT GGGACTCTG ATAAAAATNT TATCAATTGA AA 162

30 SEQ ID NO:6024
 SEQUENCE LENGTH:179
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 35 CLONE:HUMGS07146
 SEQUENCE DESCRIPTION:
 GATCCAGGCC AATGCATGGC TATTGCTGTA AATCTTGATG TTTATTTCTG CCTTGTAAG 60
 TTCTATCAGC GCCTACCTGG AATTTAAAT TCAGTAGACA AATTAATTGG TCCTCTGCAC 120
 AACTTTTTTA ATAAGTAGAT TATTTTNCAN NGGNTTNGA NCAANTTNA TTGANTCTN 179

40 SEQ ID NO:6025
 SEQUENCE LENGTH:403
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 45 CLONE:HUMGS07147
 SEQUENCE DESCRIPTION:
 GATCAGAGTG GCTGGAGCAG AGTGAATNAG GAGGGAAGCT GAGTAGCAGG TATCTGAGAA 60
 GCAATGCAGC CCGCAGCTTA ACTTCAACAT GCTTTTAAAC TTTTNCCTA TTCTNTTGAG 120
 50 TTTCAAGATA TAACCTTGAG GAAACTCAA ATCCTTTCTC CTTAGCCTTA AAATAGACTC 180

55

5 CACGTCCTC CCCTTTNTCA CCAGATATGC TCCCTTTNCA TTTATCTAAC TGTATGCTAC 240
 TATTTAATTG TGTGATGTCT TAGANGTTTC AGTGGCTAAT CTTGAGACAG ACCAAGNCTG 300
 GAGACCCAGC TGGCAANCCT TCCANNATTT ANCTTCAAAA TTGGCTAATT NANCAACCNG 360
 GCCCTTNGTT NNAAAATTATG GTNATTCCGG GGGNCCCGN TGN 403

10 SEQ ID NO:6026
 SEQUENCE LENGTH:198
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07150
 SEQUENCE DESCRIPTION:
 15 GATCTTGCTG CAGCCACAGT GCAGTCCACA TTAAGTCTAC AGACCAAACC ATTTGTATCT 60
 GGCATCACTT ACTAACACAC GACATGCAGA AAAGCCGCAT GTNGTGTGTT AGTATACANG 120
 AAGGAATAGA AAAGTATATC TGTTTTAAAT ANTCTGTAAT TTCAATTTT TTNTTTTNN 180
 GCTGAANTGG GTCNTNTN 198

20 SEQ ID NO:6027
 SEQUENCE LENGTH:190
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07151
 25 SEQUENCE DESCRIPTION:
 GATCATAACT CTTTNTTGAA CTAGAGTATT TTTGCAGCAT TCCTTGTCAT CAGAAACATG 60
 GTTAAAGTTT AAAACTAGAA GCAGCAGAAA ACTAGCTTGT AAAATTTATC CAAGTAGAGT 120
 GCAGGCTAGG CTGTCTTGGG GAAATAAACA TTAANCTTA AAGCAATGTT TTACATGGAA 180
 ANNNNANNNN 190

30 SEQ ID NO:6028
 SEQUENCE LENGTH:217
 SEQUENCE TYPE:nucleic acid
 35 TOPOLOGY:linear
 CLONE:HUMGS07152
 SEQUENCE DESCRIPTION:
 GATCTTGTGN CATTNTTGAC CTTGGACCTG CTTGGTTAAG GAGGGAGTGG GCCAAACCAAG 60
 AGTGCCAGGA GCTAATGGAG CCAGGCCTGA CTCCTAGGAG TGGTCCAAAG GCCTTCAGCC 120
 40 TAGATGGTGC AAAGNTGGGG CCAGCCTGTT TTCACCGGNA CCNGNGCCTG TGACACCAAG 180
 ACCCACCCCA ATCCAGNNT TNACACAGTA TTNTCCN 217

45 SEQ ID NO:6029
 SEQUENCE LENGTH:136
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07153
 SEQUENCE DESCRIPTION:
 50 GATCGGAGCC TACTTCCCTC CGCTCAGCCT NGAGGAGCTG AGNCCCTACT TCAGGGACCG 60

55

TGGGTGGCCT CTGCCGGGC CCCTCTAGAC GTGCACCAGA AATAAAGGCG AAGACCCAGC 120
CCCTCGGCGG CTCAAA 136

5

SEQ ID NO:6030

SEQUENCE LENGTH:278

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10

CLONE:HUMGS07154

SEQUENCE DESCRIPTION:

GATCCAAACC CAAGTCTTGA GCAATGTTTT TCTCAAAAAG CTGCTATCCA ATNATATAGG 60
AAAATACATT GTGTTTTCTT AAACACACTT TTCTTTTAA ATGTGCTTCA TTGTTTGATT 120
TGGTCCTGCC TAAATTCAC AGGCTAGGNC AATGAAGGCT GAATCANNNGN CANTTCATCC 180
ACCAATATCA TGTGTAGATA TTATGTATAG AAAGTANAGT AANTTATGGC TCTAACTTCT 240
GTGTTGCTGT NTATCCTTGN TTTTNTCGG GGGTGNTN 278

15

SEQ ID NO:6031

SEQUENCE LENGTH:65

20

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07156

SEQUENCE DESCRIPTION:

25

GATCAGTTGA TGTACACTTG TATTATTAAA GCACTCAATA AATCACTGTG GCTGATAACT 60
GCAAA 65

SEQ ID NO:6032

SEQUENCE LENGTH:161

30

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07157

SEQUENCE DESCRIPTION:

35

GATCCACATG GCACGGTGAC TGTAGTTAAT GCATTTTATA TGTCAAAATT CCTTANATAG 60
TAGATTTTAA ATAATCTCAC CACAAAAAAG TAGATGTGTT GGTGATGGAT ATCTTANTTN 120
GCTTAANGTA NTTGTNTCAC CAATGTATAC ATNTATCAGN N 161

SEQ ID NO:6033

40

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07158

45

SEQUENCE DESCRIPTION:

GATCATCTTT ACAGTTCCTC GGGAAATNT GAATGTCCTG CGTTTTGTTT TCTTTACTGT 60
ATGAAAACAG GAAAATAAAA GAGAAATTTA GAAAATACAG CTCATTACAA TAAANNNTNT 120
GGNTTTCAAA 130

50

SEQ ID NO:6034

55

SEQUENCE LENGTH:165

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07160

SEQUENCE DESCRIPTION:

GATCTGGCCC AAGCTGGGCT CCCTNNAAGC CAAGAGAGCC TCTNATNGAC CCCGCCTGCC 60
CGAATGAAAT CCGAACAGTT GGGGCTGTTC ATGGCAAGTG GGGCTGGTTT TTCAINTCCA 120
TTGGTTATTT AAAGTTTCCN TTAATAATAA CGATTTTAAG TTAATA 165

SEQ ID NO:6035

SEQUENCE LENGTH:77

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07161

SEQUENCE DESCRIPTION:

GATCTGGGGT CTGTTTTGTT CATTACTTTG TTCACTCCTT CTTCCATTTA TTCATTCAAT 60
AAACATTAT TGGGAAA 77

SEQ ID NO:6036

SEQUENCE LENGTH:310

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07162

SEQUENCE DESCRIPTION:

GATCCGGCTT GCCCAGAAAG AGAAGACAGC CATGGAAGTG GAAGCCCCCTT CAAAGCCAGC 60
CAGGACTAGT GAACCACAGC TCAAAAGGCA AAAGAAGACA AAAGCCCCC AGGATGTAGA 120
AATGAAGGAC CTTGAAGATG AGAGCTAAAC CTCTTCCACT AGAAGATTCT CAACTGGAGC 180
CAGCCTTCNG GCTCAGTGGT TGTTTCAGAG GACTTTGACA AAAGCAAGGC CCCTTTTCAC 240
TCTCCAGATT TCCTCTACC TAATGGCCTA CTGACCTCCC CTTAGAGGGA TGTNTTTGGG 300
NNGGAAGNTN 310

SEQ ID NO:6037

SEQUENCE LENGTH:288

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07163

SEQUENCE DESCRIPTION:

GATCCAGAAC ACTTCAAGAA CTCGTCAAAC AGCTCGATAA GCCTTTTTGA CTGINTACAT 60
CTGTACCGGG AATAACATTC CTAGGCTGAA ATTTCCACAA AGANTAGAAC CTGTACCCAG 120
TTCTTCAGGC TGATTTCCCT GACCTCTTGG GCATTTGTAT TTGTAGTAAA GTATTGCAGA 180
GATTCTAAG TATTTTNNNA GCAGCCATNA AAAATTGGNC TTTGINTING TTGATTCATN 240
NNGAGGGCAA GTTGGGGANT AGACTTCAGT NGANCTCGGT ATGGNTGN 288

SEQ ID NO:6038

SEQUENCE LENGTH:51

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07164

5 SEQUENCE DESCRIPTION:

GATCACGCCA CTGCACTCCA GCCTGGGCAC CAGAGTGAGA CACTGTTTAA A 51

SEQ ID NO:6039

10 SEQUENCE LENGTH:195

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07165

15 SEQUENCE DESCRIPTION:

GATCTGGGCA GGAACATCA CATACCAGGG CTGTCTGTCG GGGGGGTGGA GGGCTGGGGG 60
 AGGGATAGCA TTAGGGGAAA TACCTAATGT AAATNACAAG TTGATGGGTG CAGCAAACCA 120
 ACATGGCACA TGTATACCTA TGAACAAAT CTGCATGTTG TGCACGTGTA CCCTAGAACT 180
 TAAAGTATAA TTAAT 195

20 SEQ ID NO:6040

SEQUENCE LENGTH:75

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25 CLONE:HUMGS07166

SEQUENCE DESCRIPTION:

GATCAGGCCC CACCTTGTGT CTACCCCAT CCCNGCTGTG AACGTGACAN TGAATAAAGT 60
 CGGGGAAACG CGAAA 75

30 SEQ ID NO:6041

SEQUENCE LENGTH:315

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35 CLONE:HUMGS07167

SEQUENCE DESCRIPTION:

GATCTGAATT GAGGAACTTG TAGTTTTTGC TCTCCCACTT CTTGGAAACC CCTATCTACT 60
 TTCCTATGTA TTTGACTACT TGAGGTAGCT TATACAAGTA GAATCATACA AATGTATTGT 120
 TTTGTGACTA GCTTACTTCA NTTACAATAA GTCCTCAAGT TCTNCCATGT TGCTGTGTGT 180
 40 GTCAAAATTN CCTCCTNGC TAAGGCTGAA TAATATTNCA TNGTATATAT ATGNCNTTNA 240
 TCCAGTCATT CATCAATGAN TACNTGTTTT TNGTGTGTGG TGTGGGAANC CTNCTGGGGA 300
 CATGGTNATA TTTTN 315

45 SEQ ID NO:6042

SEQUENCE LENGTH:79

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07169

50 SEQUENCE DESCRIPTION:

55

GATCTAAGCT GATTAAATC TAAAACTGG ATAAGAAGCT GTGGCTTGTA ATAAAAATA 60
GACCTTTATT CACTAGAAA 79

5 SEQ ID NO:6043
SEQUENCE LENGTH:189
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS07170
SEQUENCE DESCRIPTION:
GATCAGGTAT TTAAGGACA TCTGACAGTG CCTGGCAGG GATAGGTGCT CCATAATGC 60
CTGTAGCTAT AATTATTACT GTNCCACTAG CTGTTTACTT AAGTAACATT GAATTTCCAC 120
AGANTGCATT TCGAATCAGG TGGACTATGA TTATACTGAT TNTAAAAATA GNGAGCTGCA 180
15 TCTGTAAAA 189

SEQ ID NO:6044
SEQUENCE LENGTH:151
SEQUENCE TYPE:nucleic acid
20 TOPOLOGY:linear
CLONE:HUMGS07171
SEQUENCE DESCRIPTION:
GATCTGGAGT GGAAGGGGAA TTCATTGTGTT CATTGTCTAT CCTTTTGAT TGATTGAATT 60
25 TTTNATATAT ATATGTAAAT TTNCACAATA AAATTTTNN CCAAAATAAA ATAAACAAAA 120
GGGGCTTTTT GCAACCCAAT TCCTATCTAA A 151

SEQ ID NO:6045
SEQUENCE LENGTH:178
30 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07173
SEQUENCE DESCRIPTION:
35 GATCATAGCA CTNATCATC TAAAAAGTTA ATAATAGATT ACTTGTAACA CAGGCTCACT 60
ATGNGAGAAT TCATCAAGCT GTATGTACAT TTATTGTGCT CTTCAATTGTA TGTATAANTC 120
AATAAATTGA AACAGTAAAC GAAAAGGTAA TTNTAGANAN CCTACAGTGA TNCCTGNN 178

SEQ ID NO:6046
40 SEQUENCE LENGTH:380
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07174
45 SEQUENCE DESCRIPTION:
GATCCGTCAC AGACTAAGGA GATGGCAGGC ATTGACAGCT TCACTCCATG AAGGCCATCT 60
CTGTTTCTNT CCTCCGCTTA ACCAAGCTGT TGTGGTTTT NAGCATAGTG TTGTATGTTT 120
CATTGCTAGC TGTCTGCTG TTTAACACAG TGTGTATTT TTTNCTAAA TGTACATAAT 180
TAGAAAAGAA GATAACAATA GGANGCTATG TGTATCTCCT GTGTAAAGNA GTGGCTTCAC 240
50 TGGAAAAATG GTGTGGCTAG CATTTCCCTT TGAGTCATGA TGACAGATGG TGTGAAAACC 300

55

ATCTAAGTTT GCTTTTGACC ATCACCTCCC AGTAGCAATT NTGCTTTCAT AATCCNTTTT 360
AGCANTCCAG GCCTCTTTGN 380

5 SEQ ID NO:6047
SEQUENCE LENGTH:72
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS07175
SEQUENCE DESCRIPTION:
GATCGTAATG TAAAAATTCTT TTACCATGTC AAGAAATTAT TAAAAATACA GGTACTTTGA 60
CCTCTTTCTA AA 72

15 SEQ ID NO:6048
SEQUENCE LENGTH:226
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
20 CLONE:HUMGS07178
SEQUENCE DESCRIPTION:
GATCCTGAAA AGATAGGGCT ATTGTCCCTT GCCTCCTTGG TCACTGCCTC TNGCTGCACG 60
GNCTCCTNAG CCCACCCCTT TGGGGCACAA CCTGCCACTG CCACAGTAGC TCAACCAAGC 120
AGTTGTGCTG AGAATGGCAC CTGGNGAGAG CCTTCTGTGT GCCAGNTTTT GTTCTGAGTG 180
25 CTGTACATGT ATTANNTCCT NTACTGCTNG CCACATTGTA CCNNTN 226

SEQ ID NO:6049
SEQUENCE LENGTH:225
SEQUENCE TYPE:nucleic acid
30 TOPOLOGY:linear
CLONE:HUMGS07179
SEQUENCE DESCRIPTION:
GATCCCCGTA CCACAGTGCC AGCCATGCCC TTCCCCTGGG CTACCATGT CCCTTTCCTC 60
35 ACCCAGTTGG TAGAGGAGTC AGGAGGTGGG AGGCCGTGGG CTTTGGTTTT ATAATGTAAC 120
CACTGTGGGG GTGGGGGAGG ATGGTGAACC ATGTATTMA GTGAAATATT TAATATATTT 180
AANTATCANT AAANTCAAAC TCTTTGTAAA ANANANNNAG NANGN 225

40 SEQ ID NO:6050
SEQUENCE LENGTH:332
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
45 CLONE:HUMGS07180
SEQUENCE DESCRIPTION:
GATCATCCTG GGCAGCAAAG TCATACACTC TTGAGGGAAG AGAGAGACCT TCTCATATTG 60
TTTTATATTG TTTTATACTC AGTACCTGTT TTAAGAAAAA AACAAGGAAG TGAATCAAA 120
GACAGGCAGC CCGGCACCAG GCCTGANACC AGCCCTGGGC CTGCNTGGCC TAAACCTAGT 180
AGTTAAATTT CAACTTACGA CTTAGANCTT GATGTTATCC GTAGATTCCA AGCNTTGTAT 240
50 AAAANATTTG TGANACTCCC TGTTGTGTTT TGTGCCAGTG CATGNNACCC CTGTCACATA 300

55

TCCCCTAGAT TGCTCANTCA NTCNCGGTTT GN

332

SEQ ID NO:6051

SEQUENCE LENGTH:259

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07181

SEQUENCE DESCRIPTION:

GATCACAGGC CTTTGGAGCA CTTTACTCT CTGAGAAGAA CTGGAGCTAG AGATGAAAA 60
 TGGACAGTCT TGATGGGGTT GAGAACCTTC TGGGGAGCCA GATGACCCTC TCTTGCACA 120
 ATAGATAAAA GTCTTTATAT GANTATATAT AANTTTNTTT NTTTTCCCT TCCTGTGGGA 180
 TTTCTGGAGA ATGAGAATTA TCCAAATNCT CAGTCTACCT GNGATAGTAA ATNCATGGCT 240
 TATGCTTCTG GTCCTTAAA 259

SEQ ID NO:6052

SEQUENCE LENGTH:92

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07182

SEQUENCE DESCRIPTION:

GATCGNACCA CTGCACTCCA GCCTGGAAGA CCAAACGAGA CTCTGTATCA AAAAATAATA 60
 ATAATTAATA AAGTTTACT GGAAAAAGA AA 92

SEQ ID NO:6053

SEQUENCE LENGTH:92

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07183

SEQUENCE DESCRIPTION:

GATCAGCTAC AATGCCCTGT GTTAAATTNT TAAAAAGTTT CCCTTTTCTT TTTGCCAAT 60
 AAAGTTGTAA ATAAAGACCA TCATACATTA AA 92

SEQ ID NO:6054

SEQUENCE LENGTH:95

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07185

SEQUENCE DESCRIPTION:

GATCCCTTCC CGCCACACGA TGCTCCGTTT TCTCCGTTG TGAATNCCGC GTCCTGTCCT 60
 GGTGACAGGA GAACAATNTT GGTGAACGTC GCAAA 95

SEQ ID NO:6055

SEQUENCE LENGTH:155

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07186

SEQUENCE DESCRIPTION:

5 GATCTCCTTC TCACTGCATT CACTCGGTC CCATAGCCCA AGTCATATTG TNTCTCTCCT 60
 GGACAGTAAT AACCTTTTNT TGGGCTCCTT GCTTCCAACC TTGCCTTCTG TAGTGTACTT 120
 TCCAAATAGA AGCCAGAGTG ATACCTTATA TTAAA 155

SEQ ID NO:6056

SEQUENCE LENGTH:138

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07187

SEQUENCE DESCRIPTION:

15 GATCAGGAGG CCCACTTGGA TTTATAGTAT AGCCCTTCCT CCACTCCAC CAGACTTGCT 60
 CATTTCCGA GTTTTAACT AGACTACACT CTATTGAGTT TAATTTNTC CTCTAGGATT 120
 TATTTCTGTT GTCCTAAA 138

SEQ ID NO:6057

20 SEQUENCE LENGTH:158

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07188

SEQUENCE DESCRIPTION:

25 GATCTGAAAA CCAAGTGGTG ACCTAGGGAG GGAACAAGCN CTGTGCAGCA TTGATGAAAC 80
 TTTAAAGATG AAGTCCTGGT CCGGGCACGG TGGCTCACTT CTNTAATTCC AACACTTTGG 120
 GAGGCCGAGG CAGGAAGATG GCTTCANCCC ACGACAAA 158

30 SEQ ID NO:6058

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07192

SEQUENCE DESCRIPTION:

35 GATCTNTGGC CCACTCCGCA TAAATCAGGT GCATAATGTA GCTGCCCGGG CTCTATACT 60
 GCAACATTG CAAGGCAATT AGCTTGAAAA CTGAATTGAT GTACATTGAT TTTTAAATA 120
 AAGTTATTGT AATATATTCA CTCGTTATAA A 151

40 SEQ ID NO:6059

SEQUENCE LENGTH:362

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07193

SEQUENCE DESCRIPTION:

45 GATCTATACC CTAAGCAGAT AGCAAAGAAG ATAATGGAGG AGCAATTGGT CATGGCCTTG 60
 GTTCCCTCA AAACAACGCT GCAGATTNT CTGCACAAAC ATCTCCACTT TTGGGGGAAA 120
 50 GGTGGGTNGA TTCCAGTTCC CTGGACTACC TTCAGGAGGC ACGAGAGCTG GGAGAAGAGG 180

55

5 CAAAGCTACA GGTTTACTTG GGAGCCAGCT GAGAAGAGAG CAGACTCACA GGTGCTGGTN 240
CTTGGTTTNN GCCAGGCTCC TCCGAGCACC TCATGCATGT CCCAGCCCCT GGGCCCTAGC 300
CCTTTCNGN CCTNCNGTCT NCAGTGCCAG NACGGAANTN CCTGNACCA NNGGNTNTTN 360
GN 362

10 SEQ ID NO:6060
SEQUENCE LENGTH:149
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07194
SEQUENCE DESCRIPTION:
15 GATCCATCAT NATGTAAAN TTCACAATAT GGTCAAATG TAACANTGCA GAATTGAATA 60
TGGAGGCATG CATAACCTTC CTCTTAGAAA ATGGCAGGTN TTGTAATTTC AAATTTTNT 120
GCAATTAGAT TAANTCATAA TGCAACAAA 149

20 SEQ ID NO:6061
SEQUENCE LENGTH:184
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07195
SEQUENCE DESCRIPTION:
25 GATCTTGCTT TAACTTCAA CACTTAGAAA ATCTACAAAC ATTCAGACCT GTCTGGGTTG 60
GTATTGCCAC CCATGACATT TAACATGTTG TGATGCTTGA AAACACAGGA GTAGAGAAAN 120
TCGATGANGA TTGTATTTN NCACCTTAAC TCCACATTGC TTTATTGGNT AATTNATANN 180
CTNN 184

30 SEQ ID NO:6062
SEQUENCE LENGTH:196
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
35 CLONE:HUMGS07196
SEQUENCE DESCRIPTION:
GATCAGTAGT CTCTATTCAA ACTTTNAAAA TGTCGTGGTA TTGTAACAAT ATATTTAATG 60
AAAGANGGTT ACAGACTCCC CTGAAGAACC AGCTTTCCTA CGCTTTTAT TTNCTAACT 120
40 TGTCTAACCT GATTNAAAA TGACTGCANT TCCAGACTAA AAACATGCTT CANCCCTGTT 180
TCANGACATT NTGCTN 196

45 SEQ ID NO:6063
SEQUENCE LENGTH:295
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07199
SEQUENCE DESCRIPTION:
50 GATCCAACT CTACATCCAG AGATTATGAA AAATTCTTAT AGAATTTTGT AACAAATATT 60
TACATGTTGG GTGAAAGANA TTTCATAGTC GTTGGAGTGC CATGAAATTA ATACTTGCAA 120

55

TTCAGATTGC GGTAGTTTAC ACTTTTCCTG TATGTTTCAA ATCAGGTGTG TACCAATTGT 180
 NCTGAGANCA CCACAGANTG ATTTATCCAA AGTCCATTGA TTTTATACG TGTTTTGGTT 240
 TGTNACCAAN TTATNGTNAT TCNTNGCACA TTTTGGNAA TTNATTGTAT AGGNN 295

SEQ ID NO:6064

SEQUENCE LENGTH:312

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07200

SEQUENCE DESCRIPTION:

GATCTTCGCT GATTNNNTCC ATCAATNACC CGGAGCATCC ACTNACGCTA GAGGAGTTGA 60
 ACGTAGTAGA GCAGGTGCGG GTTCAGGTTA GCGACCCCGA GAGTACAGTG GCTGTGGCTT 120
 TCACACCAAC CATTCCGCAC TGCAGCATGG CCACCCTIAT TGGTCTGTCC ATCAAGGTCA 180
 AGCTTCTGCG CTCCTTCCT CAGCGTTNNN NNGATGGACG TGCACATTAC TCCGGGGACC 240
 CATGCCTCAG AGCATGCAGT GAACAAGCAN CTTTGCAGNT AAGGNGCGGG TGGCAGCTGC 300
 CCTNGNGAGC AN 312

SEQ ID NO:6065

SEQUENCE LENGTH:108

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07201

SEQUENCE DESCRIPTION:

GATCAGTGCT CTTCAAGGTG TCAAGATTAT CAAAGACATA AAAGANTGGN TGANCTGCCA 60
 TAGATTGGNG GAGACAATGC AATGTGAAAT CCTGANTTTG ACCCTGAN 108

SEQ ID NO:6066

SEQUENCE LENGTH:103

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07202

SEQUENCE DESCRIPTION:

GATCTTTAGT CCGAGTATGN GAAATTCAAG CAACTTTGCG AGANAAAGGA ATACTATTTT 60
 TNAGNCAACA AATTAAGGAA CITGAAAAGC TAAAAANTCA GAN 103

SEQ ID NO:6067

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07204

SEQUENCE DESCRIPTION:

GATCANNGAA ACTAAACATT ACACCTTCTG GNCCTTNATT TATGAAGTGG CACAGAATCT 60
 AACCTTNCAC TGAATATCTT TCCATTACACA TCTCCTCTGC CTTAGTCACA ATGGCAACAG 120
 TACAGNN 127

SEQ ID NO:6068

SEQUENCE LENGTH:136

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07206

SEQUENCE DESCRIPTION:

GATCTCCCAA GNAAGCACAA ATAGTTTTTT TCGCTAATT AGTTATGAGT GAAGCCTCTG 60

TNCACCTATA ACTNGCCAGT TTCATTGGTG GAATAAGTCC CCTTACTCAT GATTCANCAA 120

TATNCCTATA TTANAN 136

SEQ ID NO:6069

SEQUENCE LENGTH:108

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07209

SEQUENCE DESCRIPTION:

GATCAGAGAA GGTTTTGGTT GTCCTTTTAA TCCTTACTTC TTTGAATTGT GAAAGTAATA 60

CTACATATTC ATAATAAATT CAAATAATAC AGAAGTATAT TATGTAAA 108

SEQ ID NO:6070

SEQUENCE LENGTH:120

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07210

SEQUENCE DESCRIPTION:

GATCCGTGCT GTCCAATCCG GTAGCCACAC ACGGCTCTCG GGCACCGCAC AGTGGCTAGT 60

CTGAAACCTG ACATGCTCTA AGTGTAATAAT ACATGGTGGA TTTTNAAGAC TTGAACCAAA 120

SEQ ID NO:6071

SEQUENCE LENGTH:174

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07211

SEQUENCE DESCRIPTION:

GATCCTGGCC CTCCACCTNC CTCCAGGCCA CGAAATGGGA ATNCCAGCAC TAAGCCAGGC 60

ACCGGGCAGA AGCTGGGCCT TCCGCCTCCN TTGGATGGGG TCAAGAGGCC ANGCCTGGNA 120

CATTTTGGNG TGTCTGGCT ACCAGCTCTC ACCTACANCC ACGCACCTCT NTAN 174

SEQ ID NO:6072

SEQUENCE LENGTH:186

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07212

SEQUENCE DESCRIPTION:

GATCTAGATA TNAGGTTTTT CTCCTTCATT CTCAGCTGTC GAAGAAATCA AAGTAGCATA 60

TGCACAAGGT TAAAAACCAC ATATACAAAT ACTATAGAAC AGCTTATANT GAAAAACCTTG 120
 CCTGCCTTTA TANAANNTGT GATTATCTTC TTCTGTTAAT GTCAGTAANN GATGGTTTGT 180
 CCTAAA 186

5

SEQ ID NO:6073
 SEQUENCE LENGTH:229
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

10

CLONE:HUMGS07213

SEQUENCE DESCRIPTION:

15

GATCTGAGAG ATGATACATG ATACCAGATG AAAAGAAGGA GAAGTGTGTA CCATATGTTT 60
 TNAGCAGAGG NCCCTCCAAC TTATGGCATC AGGGGCAAAA AGTCACAGCT TATCCCAGGC 120
 ACCCTGGCAG GTTCTCAGAG CCTGCCTCCT CCCTGTTTAT ATGCGTACAG CCTGGTAACC 180
 CCCAGGCATG CAANTATACA GTCTGTAACA ACAGGNNNTT NNTNNNTTN 229

SEQ ID NO:6074

20

SEQUENCE LENGTH:50
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07214

SEQUENCE DESCRIPTION:

25

GATCTTAAAA CTGAATAAAA ATATTTAATA AAACTTTGAA ATATTTTAAA 50

SEQ ID NO:6075

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SEQUENCE LENGTH:297
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07215

SEQUENCE DESCRIPTION:

35

GATCCATTCT ATCCATCCGT TATGTGGCTT TGCCATCCCA GCTTGGAGTG TCTTTACAAA 60
 GATAATAACA GTTGTTTTCT TTGCTCTCGT TTTGGATGCA TAGACTGAAA AATTAAAAACA 120
 AATAACTTGT AAAATGGCTT GTNAAAAAAT ACAATTACCT CTAATTAGTA GTACGCGTAA 180
 NTNTTTTACA GAATGANAGG CGTGCTTTNN ATTCCTTAC TGCCTTACAT TGGTGGCGAA 240
 AGANGTCTGT ATGANANTCA GTNCTTNTGC TGACACAAGN TCCATTGGT NACANAN 297

40

SEQ ID NO:6076
 SEQUENCE LENGTH:191
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS07216

SEQUENCE DESCRIPTION:

50

GATCCTCAAT CAGTGGGTGG AGGATAACAG GGTAGATTCA CTTGTTTGCA CTTNTACAGT 60
 TGTAGCTGCG AGTCCAGAAG TCCTCTAGAG CATGTTTACT GGCAGTGAAG TGGTGAGACA 120
 GTTGTGGAGT ATCCCATTTCT GATGAGTACA GAAAAAAGAA NGANGAGAAA 180
 AANTTANGAA A 191

55

SEQ ID NO:6077

SEQUENCE LENGTH:235

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07217

SEQUENCE DESCRIPTION:

GATCCGAGCG TCGTGAATC ACCTGAACTT TGGAAAGTTG GCACTGGGGG GCCGCATCCC 60
 CCTGGGAAAT NACTGAACGC GGGGTTTCAN TGGGTCCCGC CTGGGTCTAA GGACCCAGTT 120
 TCTTCTGTNA GCACGGGCAG TGGGAGGCCG GTGGAAAGGC GCAGGGGCCC ACCTACGCGT 180
 CTCACATCTT CAGGGGCGCA TTTCTACAAT AAAAATCAC CCAATTAGAC CTAAC 235

SEQ ID NO:6078

SEQUENCE LENGTH:181

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07218

SEQUENCE DESCRIPTION:

GATCTATTGG ACCAAACCTT GTGCACACTC GGCCAGTTCC CTCTCCAATG TCCGGTGCCA 60
 TCTTTCCTGA CTTTGTGTTT TTTCTGTTCA GGAACCATCA GTCCCCTTGT AATAAAGGTG 120
 GTAGATTCA TTGAGGTTT AGATTGAAAC TTTGAATAAA TCAAAAATAC TCATTCTTAA 180
 A 181

SEQ ID NO:6079

SEQUENCE LENGTH:54

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07219

SEQUENCE DESCRIPTION:

GATCTATCAT TACAAAATNA ATTGAATAAT AAAATAGTTT GGTAGAACT TAAA 54

SEQ ID NO:6080

SEQUENCE LENGTH:225

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07220

SEQUENCE DESCRIPTION:

GATCCAGAGT TGAAGACCCT TCAGCTGGCT CTGCCTGCCA GTGCCACANA GTGCCATGGC 60
 CCAGGAAGAC AGGTTTTNTT CCATCTAGGC CAGGCCATCC AGTGGCCATC CTCCGTGTCC 120
 TCCCGCCTCC TCCTGGTGTG ACTTCTGAAA ACCAAGAATT TGTTCTCTGT GACTTTTTCT 180
 GTGCTATGGA CCATTGTCCT CTCACCCACT CAATAAATCT TGAAA 225

SEQ ID NO:6081

SEQUENCE LENGTH:291

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07221

SEQUENCE DESCRIPTION:

5 GATCTCTNCT AACNNTAGTA AATAAACT AAAGTGGTGG GCTTTGATAA TGCATTNGT 60
 GGATACAAAA TCATCGNCTC ATCACTTTCT AGAATGAAAG GCTGGGAGGC ATTGCTCACC 120
 TTTTGCGTGA AGAAAAGACC TGTCCCTTAG AGCCAGTTTT TNCCTAAGGG GAGGACAGAC 180
 CGTCGTCACC CAGTGGACCN CGTTGGATGG NTGGATGCAG TNCATNCTTT AGAAGCACCG 240
 10 CATACCTGCT TGTTACAGGT NCAGNGTAAG TGGTCTTNGC TNCCTGTGGGA N 291

SEQ ID NO:6082

SEQUENCE LENGTH:107

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS07222

SEQUENCE DESCRIPTION:

20 GATCTNCCCT AGCCCTCTNT TCCAGAAGAT GCCCTCCAAT CCTTTCCACC CNATTCCCTA 60
 ACTNTNGGGA CCTCGTTTGG AAGTTTTCTG TGGGCTTGGC CTGGTN 107

SEQ ID NO:6083

SEQUENCE LENGTH:173

SEQUENCE TYPE:nucleic acid

25 TOPOLOGY:linear

CLONE:HUMGS07223

SEQUENCE DESCRIPTION:

30 GATCTAGTTT TCCAAGTAAC ATTTTGTGGT GACAGAAGCC TAAAAAAAAG CTAAATCAG 60
 GAAAGAAAAG GAAAAATACG ANTTGAAAAAT TAAGGAAATG TTAGTAAANT AGATGAGTGT 120
 TAANCTAGAT TGTNTTCATT NCTAGATAAN NTGTATAACG CTCTCTGTNC TAN 173

SEQ ID NO:6084

SEQUENCE LENGTH:328

SEQUENCE TYPE:nucleic acid

35 TOPOLOGY:linear

CLONE:HUMGS07224

SEQUENCE DESCRIPTION:

40 GATCACCTGC GTGTCCCATC TACAGACCTG CGGCTTCATA AAACNCTNA TTTCTCTTCA 60
 GCTTTGAAAA GGGTTACCCT GGGCACTGGC CTAGAGCCTC ACCTCCTAAT AGACTTAGCC 120
 CCATGAGTTT GCCATGTTGA GCAGGACTAT TTCTGGCACT TGCAAGTCCC ATGATTTCTT 180
 CGGTAATTCT GAGGGTGGGG GGAGGGACAT GAAATCATCT TAGCTTAGCT TTCTGTCTGT 240
 GAAATGTCTA TATAGTGAT TGTGTGTTTT AACAAATGNT TTACACTGAC TGTGCTGTA 300
 45 AAAGNGAATN TGGGAATAAA GTTATTN 328

SEQ ID NO:6085

SEQUENCE LENGTH:156

SEQUENCE TYPE:nucleic acid

50 TOPOLOGY:linear

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CLONE:HUMGS07225

SEQUENCE DESCRIPTION:

5 GATCTCAGCT ATTTAAATAC AAAGTTGAAA AAAATATTTT TCCAGGGTAC CATAAATATG 60
 ATTAANTNNN TAAAAAATTT AGTGTCACTT GATGAAAATA TAACTAGACC AATAGTAAAA 120
 TNCAGGTGTA TCTTANTTCC CTGANGTCCT CATTN 156

SEQ ID NO:6086

10 SEQUENCE LENGTH:276

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07226

SEQUENCE DESCRIPTION:

15 GATCCTGGGC TGCTGGTGCT ACCTGCGGCT GCAGCGCATC ANCCAGTCGG AGGACGAGGA 60
 GAGCATCGTG GGGGATGGGG AGACCAAGGA ACCCTTCCTG CTGGTGCACT ATTGGGCCAA 120
 GGGACCGTGC GTGGAGAGAA AGGCCAAGCT GATGACTCCC AACGGCCCGN AAGTCCACGG 180
 CTGAGCCAGG ATTCAAGGNT CCTNGTCCTA TTTNCAGCCG GCCAANNNGG GCTNGNAGGG 240
 20 GNAANCCAT ACGGTTGCGC TNNTGTCTGA GAGGAN 276

SEQ ID NO:6087

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

25 TOPOLOGY:linear

CLONE:HUMGS07227

SEQUENCE DESCRIPTION:

30 GATCTTGCCA CATCTGGCAC GGAGACGACA CAGTAATNCT GAAAAAGCCT CTATGTAGTC 60
 CTGTTAGTNT CTAAAGAAC CTAAGAAGCTN GGACCAGTAA AATCCACAGA AATCACTCT 120
 TGCCTTTAAG AACTTTTGAA AACTGTTTAA A 151

SEQ ID NO:6088

SEQUENCE LENGTH:373

35 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07228

SEQUENCE DESCRIPTION:

40 GATCCAATGG ATTTAAACAG AAGCNCTTTG CCAGGCTTGC CAGCAAGAAG GCAGTGGAGG 60
 AACTTGCTA CAAATGGAGT GTTGAGGATA TGTAACCTTC CTNAGGCTGT GGGGGTGGCT 120
 GGNCTGTGGT AGTGGGCATA GGCAGCGAGA TATCCAGTGG TAACAGTTGT CTGTGCTAAT 180
 AATTGGAGCC CACACAGNCC AGCAGCTTGT TGAATGCCAG TTTTGACCAC AGAAGGTTTA 240
 TTCGAGGCCT NATGTTTGA CTGAGGTACC TGTACTTCTT NGGGTGTGA CAGCACCAGG 300
 45 TGTGCTGGN TTTAGAGGG AGCGTTGATT TCTCNTGAC CAGGGNTTNT TCTTTGGTTA 360
 GGGTGTCTCT TCN 373

SEQ ID NO:6089

SEQUENCE LENGTH:174

50 SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear

CLONE:HUMGS07229

SEQUENCE DESCRIPTION:

5 GATCAGNAGA GGCCANGCTC CNCCCCACCC CAAACAGCAT GAACTTCCCA AGGCTCCATC 60
 CCTTTCTCCC AGTGCACAGG CTGGTCACTT TCTCCGGGTA CCCCCTTGGG TACCTTGGCT 120
 GTCTCAGTTC TATTAAACCA TTTCCCACT TTTGAGCATT TACTCACAGT TAAA 174

10 SEQ ID NO:6090

SEQUENCE LENGTH:142

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07230

15 SEQUENCE DESCRIPTION:

GATCTCAGAT TTTTTTGAA GTTAACATGC CTGACACAGA CATCCTTTCC TCTCACAAGC 60
 TGTGTGACTT AGTAGATAAA ATACTGCCTT CTGCCTTTGG GACCATGATT AAAAACAAG 120
 ACAAAAACCA AAAGTCATTA AA 142

20 SEQ ID NO:6091

SEQUENCE LENGTH:139

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25 CLONE:HUMGS07231

SEQUENCE DESCRIPTION:

GATCACTGGA CATCAAAGAT TCATTGCACT TATGAACAAG GAACCTTCTT TTCAATTCT 60
 GTGTAATTG CAAGGCTGTA CAATGTGTGC TGATGCAAGC CTTTTTCAGT TCAAGAGAAT 120
 AAATGTTTAC AANTATAAA 139

30 SEQ ID NO:6092

SEQUENCE LENGTH:230

SEQUENCE TYPE:nucleic acid

35 TOPOLOGY:linear

CLONE:HUMGS07232

SEQUENCE DESCRIPTION:

40 GATCTATAAA TCAAGAAAAT CCATTGTCAT AACCATTTT AAAAGTCAAA AATTAAGACA 60
 TCCTTAATTA AAANGTTTCA AATCTAGACA CTAAATGTGT GTGANTGTAC AAAGAAAACA 120
 ANCCATTGCT TATNCTGTTA TATACTAGTG NNCCTTTTAN TTTTGCTTGC TGTTTTAAAC 180
 TTGGACAGTT TGAGGACTTT NGTTGGANCT TCGTATTGTA NGANCTGTTN 230

45 SEQ ID NO:6093

SEQUENCE LENGTH:103

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07235

50 SEQUENCE DESCRIPTION:

GATCGAGGAC TATTCNGTG CTATTCATT CTCCATTGCT AAACAGATNA AAAGCGACGG 60

55

TTNCTNCACT AACAGCAGCT GGGAAAGANG TTATGCTTGT TGN

103

SEQ ID NO:6094

SEQUENCE LENGTH:246

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07238

SEQUENCE DESCRIPTION:

GATCCCAAGG ACCTGGAGCC ACGGGCTGCC AACTGCACTC GGGTACTGGT GTGGCATACT 80
 CGGACAGAGA AGCCCAAGAT GAAGCAGGAG GAGCAGCTGC AGCGGCAGGG CCGGGGCTCA 120
 GACCCAGCAA TTGAGGTGTG ATGGCGGGCC CACCCCACT ACCACCTCTT TTCAGGCACA 180
 GACCTTGTGG GACTGGGNCC AGGCCTNCCC AGGATTGTGG GTTTTCCAA AGTCCTTGAC 240
 CNTTTN 246

SEQ ID NO:6095

SEQUENCE LENGTH:158

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07241

SEQUENCE DESCRIPTION:

GATCCACCAG CCTCAGCCTC CCAGAGTGCT GGGATTACAG GCGTGAATGT AATNNTTTT 60
 AAAAAGAAAA ACATGGNTGT AAAGAAAGTA AAGCTTCGTT TTGAACAGTT ATGATGGTAA 120
 CACANCTCAA NGGTGCAACT AANGCAGTGC TGCANCCN 158

SEQ ID NO:6096

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07243

SEQUENCE DESCRIPTION:

GATCTGTGAC ACTNACATGG CTGTGGTGTG CATACTGTGT AGTTACATAG CCCTTCCAAT 60
 TCTGGGTCCA TTTGCACTAG CAAATTAAAA TATGCTTTGA TTCATACTTA AA 112

SEQ ID NO:6097

SEQUENCE LENGTH:81

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07244

SEQUENCE DESCRIPTION:

GATCCCAAAC NACTCACTCC TTAAATTCAC ACTTTGCCAC TTAATCCAG TGTGGATGAC 60
 AGAGCGAGAC CTGCCTCAA A 81

SEQ ID NO:6098

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07245

SEQUENCE DESCRIPTION:

5 GATCAACCTC AACACCTGGC NTCTCANGCC TATATACCGA CATATNCAGC AAACCCTNAT 60
GNAGGCTACA AAGTACGCGC AAGTACCCAC GTAAC TGACG TTAN 104

SEQ ID NO:6099

SEQUENCE LENGTH:54

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07246

SEQUENCE DESCRIPTION:

15 GATCTTTTCT AAATATTATT ACTTGTAAT AAAGTCTATT TTGNTCCCGT GAAA 54

SEQ ID NO:6100

SEQUENCE LENGTH:133

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07249

SEQUENCE DESCRIPTION:

25 GATCTAAATA TGAAAAGTAT GTCCTGCTGA ATTTTCCTGT GNATTGGTGA GCGGACAGAC 60
TACCTGTAAA CCATGACCTC CTTGCCAAAC GTTAGTTTAA TNAGNTCACT NGTAACCTTT 120
GAGAATNNTC TGN 133

SEQ ID NO:6101

SEQUENCE LENGTH:104

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07250

SEQUENCE DESCRIPTION:

35 GATCGTNCCA CTNACCTCCA GCCTGGGGGN NAGAGCAAGA CCGTGTCTCA AAAACAATTN 60
AGTCTGAAAC ACAATTGTCC TGAATCTGTC TGACTATAAC TCTN 104

SEQ ID NO:6102

SEQUENCE LENGTH:126

40 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07251

SEQUENCE DESCRIPTION:

45 GATCTCAAAA AAGAAGGAAT TTCTCCTNTN INTCTTGCG TTAATGTAAG ANTACTTTAA 60
ATCTCTAANC TTCTGAAGTG TTAGAGGTAG AGATGGTCTA GTAAAGATGT GGTAGTAATG 120
TNTTAN 126

SEQ ID NO:6103

50 SEQUENCE LENGTH:179

55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07253

SEQUENCE DESCRIPTION:

GATCAAGCCA TCGGAGCTGC TAGAGTTCTG TCTGGACTTT CCAGAGACCA AGTNTTCCT 60
TTTGCTGCCT CTAAGAGGCC TGTGCTGCA GACATGTGAG ACAGCAGGTC TGATGGGGT 120
GACAAGCTTT NTTTTTTTN CCNAAAGAN TTNCAAATC AATTCAGAT TGNTTTTN 179

SEQ ID NO:6104

SEQUENCE LENGTH:293

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07257

SEQUENCE DESCRIPTION:

GATCAAATTT CANTGGCTTT NGACAGAAAA GAAGGCTCTG GATTTAAGCG GGTGGTCACC 60
TGTNAGACCA GGTCTACCTT GGGACTGTNA TTAACTGAA TCAGTTATTT CCTTGAAAT 120
TCACAGTAGT GGGTGGGCCT GTTTAAGGN TCTGACAGAT ACCACGAAAC ATGAAGCACG 180
TGAACTACA AGACCCCGG GGTCTTCTG AGTGCAAGGC TGAATGGGN CAAGGGCTCC 240
TCACGGGGNG TGGAGGGNNG CCGGGAGNCT TNCNTGGTTG TTNCNTTTT TGN 293

SEQ ID NO:6105

SEQUENCE LENGTH:110

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07259

SEQUENCE DESCRIPTION:

GATCCCGTNC GCGCGCTGC CCGAGAGGAA CAATGACAGC TTTGCAGTTC TCCNGGAGTN 60
CGCTGAGGAG CAGCTGCAAG CCGACCANGT NTTCAATTAC TTCCACAAGN 110

SEQ ID NO:6106

SEQUENCE LENGTH:183

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07261

SEQUENCE DESCRIPTION:

GATCTAGTAC TCCTTGATGA AGAATCGGGG CCTGTAACT TACCTCCAGC ACTAAACAT 60
CCTCANGANT TACTATAATG TGTCCAAAT ATCACTGCAT ACAATATCTG NNATTGGAAG 120
TGAAAACTG ACTTTNGTAT AGTATAAAC ACAGGCTTTC ACAANTTTTG GTNTNGCTGG 180
NTN 183

SEQ ID NO:6107

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07263

SEQUENCE DESCRIPTION:

GATCCTGANG ATGATGATGA TGATGATGAT GAAGAATAAA TGGAAATCAAA ATGCTAGCTT 60
 NATTTGACAT NAATAAGTAA AATAAGTCAT CATGTNTTCA ACNCTGTAGT TCAGCTGTTT 120
 ACATTGAATA ATNTN 135

SEQ ID NO:6108

SEQUENCE LENGTH:173

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07264

SEQUENCE DESCRIPTION:

GATCCTTTCC AGTTTAAGCA GCCAATCAGA CCNCTTCACA TTTCTAAAAA AATGACCTAA 60
 CTAAAGCACC AGAGCTCGGA GANTTCCAGG GAAGCCAGAT ACCGAGGCGC AAATTTTTTA 120
 AAAAATAAGA GTCAGAAATA AAAATAAANG GTNTCTGTTG GTCAAGATT AAA 173

SEQ ID NO:6109

SEQUENCE LENGTH:152

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07265

SEQUENCE DESCRIPTION:

GATCAATTGA AATCAACTGT GTTTGTNTT CTCTATGTCA AAGTTTAGTT TTATATTGAG 60
 AATGTAACT TATTGCTTGG TATCTNGGGA AAAAACTTT GTAAATAAGN TATAAAGTTT 120
 CTTTGAGACA GTAAATTAT GATTNCTTGA AA 152

SEQ ID NO:6110

SEQUENCE LENGTH:337

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07266

SEQUENCE DESCRIPTION:

GATCTGCTCA CCTCGGCCTC CCAAAGCCTC AGCCTCTTAC AGTGTGGGA TTACAGGCGT 60
 GAGACACTGT GACCCGGGAC GATTTTCAAT CACAGTTTTT TGNTACGAGT GGAAAATGCG 120
 TATTTATAAG AATGAAGTAG TACAGACATG ANTNTGTAGA AATCTCTATA ATCCTGCCAT 180
 CCAAGGTTGG TACCTGTTAA TGTGTATATC AGGGATGTGC AATCTTTTGG CCTNCCTGTG 240
 CCACACTTNG AAGAAGAAGA ATCGNCTTGG GCCACGGATA NANTNCACT AACACTAGCA 300
 ATACCTGGTG NGCTGAAANA GNNAGTTAAT TCNCNTN 337

SEQ ID NO:6111

SEQUENCE LENGTH:76

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07267

SEQUENCE DESCRIPTION:

GATCCTGTTA ATNAAACCAC AGACACCATA TATCCTTCTG CATCCTTTGG CCAATAAAAG 60

TTGCTGGAGA ACCAAA

78

SEQ ID NO:6112

SEQUENCE LENGTH:176

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07268

SEQUENCE DESCRIPTION:

GATCAAGGAG AGTCACAGCC TTATTAAAAG TTTATTAAAC AATANTATAA AANTTTTAAA 60

CCTACTTGAT NTTCCATAAC AAAGCTGATT TAAGCAAACCT GCATTTTTC NCAGGAGAAA 120

TAATCATATT CGTAATTCA AANGTTGTAT AAAANTATTT NCTATTGTNG TTCAAN 176

SEQ ID NO:6113

SEQUENCE LENGTH:63

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07269

SEQUENCE DESCRIPTION:

GATCGACACG TGGGGGCGCC TGAGCGAAGA TAACCGTAAT AAATAGTAAC CTAACGGTCC 60

AAA 63

SEQ ID NO:6114

SEQUENCE LENGTH:73

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07270

SEQUENCE DESCRIPTION:

GATCAGNCCT CGCGCAGTGG CTCAAGGCTG TAATCTCAGC ATTTTGGGAG NCCGAGTGAG 60

ACCTTGTCTT AAA 73

SEQ ID NO:6115

SEQUENCE LENGTH:243

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07272

SEQUENCE DESCRIPTION:

GATCTTAAAT ATTCTAAAGT TTGTATTGTG ACTTCCAGTA ATGTAAACTA TATGAGGCTA 60

ATCCTCTTTT CCTCCITTTT GTTGTGTAAC CTCATTGGG ATAACGTAA CTAGTATTAT 120

TTTATTATG TAATAAAAT ATATGTGAAA TAAAGTGTTA CTGGTAAAGG ACTTGTAAC 180

ATGATAANTA TTAGCAAGTT GCATACAGAN TTAANAGNGN GGNGNGNANG GNGTGNGGTN 240

TGN 243

SEQ ID NO:6116

SEQUENCE LENGTH:199

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07274

SEQUENCE DESCRIPTION:

5 GATCAGAAGT TCAAGGGACC GTGAAAGCCC TCAGAGTCAG CACCTAGTTT CAGACCAAGC 60
 ACCCTTTTGA ATCCCTGGAT GGCTGAGGGG GCTGAGGCCG GCTCTGACTG GGCAGCTCAG 120
 CNCCTCCCCC AGAGCCCAGG GTCTTGACACA CCCCTNCCTG TAACCAAGGA ACACTCTGAA 180
 ATAAAGGTGA ATGGCTAAA 199

10

SEQ ID NO:6117

SEQUENCE LENGTH:283

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15

CLONE:HUMGS07275

SEQUENCE DESCRIPTION:

20 GATCAAAATA CTAATAAATT ACTCACAGAC TCAGTGTATT TTTNCTTGA GTAAAAGTCC 60
 AGGATGGGTA ATAGAATACC TGCTGTTGGC TTTTGAAAA ATTGGTACTG TATGTAGCAA 120
 AATAATGTGA AACCCATATG CATGGATATT CTTAACAATT TGAAGAAATC GTCACAGCTT 180
 TCCTGGGTTG TTGAGCCTCT AAGATGGTCT TTTCTCTGTA TGTGATAATA AAGTGTTTAT 240
 TCTGANCTCT AAAAAAANN NANNGNGGNG NNTGNNGTGG NGN 283

25

SEQ ID NO:6118

SEQUENCE LENGTH:317

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07276

SEQUENCE DESCRIPTION:

30 GATCACAGTT TTACAAATCT TAGTTTTAAA TAAATTATTT CAGTGTGCTG TTAGTCCTCT 60
 ACAGTCATTT TGGTTTAAAA AGTGACTATT TATTATGGT AGNATATCAA TAATTTATTA 120
 ATGTTAAAAA ATACTGTGTA TGACATTACA AACCAGANCA GTTCCTGGGG GAGAGGNTTC 180
 TNATTGATTG GCAGTTCTGA GAGGGCAAGA NGANTGGNAC TTTATNCTTC AAAAGGNGGT 240
 TTTGGTTTTN CCAGGTACTG CTTATGTNAA TCGTTTATTT TTNTTTCATC AAAGCCTGGC 300
 35 ANGTNTATGC NTTCAN 317

40

SEQ ID NO:6119

SEQUENCE LENGTH:360

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07277

SEQUENCE DESCRIPTION:

45 GATCGACGAG CTGCTGCAGG AGTTCGAGGA GAAGAGTGGC CGCACCTTTC TGCACACCGT 60
 CTGCTTCTAC TGAGCCCAGC GCCCGCATGG AGCCGCTCT GGAGCTTCCT GTTGTTCATA 120
 CTTTTTCCTT CCTGACATTT GTTTTTACTT ACAGGTGTTT TGCTGGTGAC GGTAGCATT 180
 CCCAAATAAA CTGTGCATAT GAAATGGGAG AGGAGATGCC AAAACGCCAG ATGAAAGCAA 240
 TCAAGTTTCT TCTTTTCCAC TTTTACTTAT GAGCGGGATA TTGATTACAN GGNNTTCTT 300
 50 CTTAACCAG AAAGGAAAGA CANCGGTTTG TGTGCACITC CCGNCATACC TGTGTCTTTN 360

55

SEQ ID NO:6120

SEQUENCE LENGTH:292

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07278

SEQUENCE DESCRIPTION:

GATCGGGAAG ACTGAGTAGG GAAGGCAGGG CTGCCNAGAA GTCTCANAGG CACCTCACGC 60
CAGCCATCGC GGAGAGCTCA GAGGGCCGTC CCCACCCTGC CTCCTCCCTG CTGCTTTGCA 120
TTCACCTCCT TGGCCAGAGT CAGGGGACAG GGAGAGAGCT CCACACTGTA ACCACTGGGT 180
CTGGGNTCCA TCCTGCGCCC AAAGACATCC ACCCAGACCT CATTATTCT TGCTCTATCA 240
TTCGTGTTCA NTAAGACAT TTGGAATAAA CGNGCATATC ATAGCCTGGA AA 292

SEQ ID NO:6121

SEQUENCE LENGTH:30

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07279

SEQUENCE DESCRIPTION:

GATCCAATAA ATNTCCTTTT TTGCTTAAA 30

SEQ ID NO:6122

SEQUENCE LENGTH:149

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07280

SEQUENCE DESCRIPTION:

GATCGGGAGA GGGAGGAGAG GCAGTCTCTT GACAAAATAA AGTATTTTTC TTCATTGTG 60
TTTATTAAAT GAAAAANCAA TCCCATGGTG TCCCTGTTGT GTGGTGGACC TAATGNCTGT 120
TGAAATAAAG TTCTGTGTTT TCCCTGAAA 149

SEQ ID NO:6123

SEQUENCE LENGTH:216

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07281

SEQUENCE DESCRIPTION:

GATCCACCAA TGAATTAGA TGGGTAGAGT TGGGTTCTTG AGTTTACCA CCACTTGTG 60
CCCACTGAAT TTTGTAACCT GCTGTGTTG CATCCTCTGT TCCTATTCTG CCCTTGCTCT 120
GTGTCATCTC AGTCATTGA CTTAGAAAGT GCCCTTCAAA AGGGGCCTGT TCACTGCTGC 180
ACTTTTCAAT GAATTAAAT TTATTCTGT NCTAAA 216

SEQ ID NO:6124

SEQUENCE LENGTH:205

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07282

SEQUENCE DESCRIPTION:

5 GATCTCATCA ACCCTTTGAA ATGTTCTGGG CAGCACAGCT CCTTGGTCTG CATGGTTGGT 60
 GTAAGTATAA TCANGTAGTG AAATTGTATG GTATATACCT ATATGCCANC AGTGTACACC 120
 CGTATGTGCA GAATTGCTA NTATAACCAT TTCAATAAAA ACCTATTGAA AAAGCTGAAA 180
 AAANNANAAA NGNAGGAGGN GNGGN 205

10

SEQ ID NO:6125

SEQUENCE LENGTH:279

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15

CLONE:HUMGS07283

SEQUENCE DESCRIPTION:

20 GATCTTTGCC AGGGGTCAAA GCGTCGGGAA GCTTGGGGTC CTTCATCCTG ACGTTATCAC 60
 CAAATTNAG CTGACCATGC CCTGCTCCTC CTAGAAAATC AATATTGGAC CCTTTTGTG 120
 AAGATTGGTC TCTGTGGTGT GATTCTCTNC CCAGGTGTCC CTTTCTCCTC CCCTAGTGTC 180
 CTTAAGTCCT CCTCCACAGG GAACATCTAT TTGGGCTTTG ATGTTTAATA AAGTAGAAAG 240
 CACTGGNAAA AAAAGAAANN NGNNNTGTGT NTGTTNNNN 279

25

SEQ ID NO:6126

SEQUENCE LENGTH:226

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07284

SEQUENCE DESCRIPTION:

30 GATCCTAAGG AACATAAAGT TAATTAAGAA CTTACACCTA ATTATGTAAA TNGCCTTGT 60
 AAAGACATGT GATTTGTATT TNAGATGCTT GTTTCCTATT AAAATACAGA CATTCTACC 120
 CTCAGTTTCT AAATGTAGAC TATTTGTTGG CTAGTACTTG ATAGATTCCT TGTAAGANAA 180
 ANTGCTGGGT AATGTNCCTG GTAACANGCC TGTNANTATN TNANGN 226

35

SEQ ID NO:6127

SEQUENCE LENGTH:339

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40

CLONE:HUMGS07285

SEQUENCE DESCRIPTION:

45 GATCCCATTT AGCCCCTGAA CATAATACCA TCTGCAGTAT TATAAAAGTC ATTTAGAAGG 60
 TCAGGGGGAT AATCTAGAGG CAGGATTTTG GACATTGTGA AGGAAATGTG CTCCTTCTCA 120
 GCTCACTTCA ATAACATTTT NCTGAGACTG AAGTTTTTTA GACAAGANTA AGANAACTTT 180
 GCTTTNTTCA GTTATCACAT GTGANAGCTT TTGCTTTTGG TTAGGAAANG GTGTGGNTGA 240
 CTCTACTGCG TGGNTGGTTA CATTTTGCTT TCCGTGNAAT TGCTCNGGAA ATGNTCNGGA 300
 CATNCCNTTT NCCATTTGTG TGTCAGTGCG TATGGTNAN 339

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SEQ ID NO:6128

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SEQUENCE LENGTH:269

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07286

SEQUENCE DESCRIPTION:

GATCTCCTAG GACCTAGTGG ACATCTGGNA TTAATTTAAT CTCAGGAAAA ACAAGANATN 60
 AACCCAGAGA GAGTCTGGGT TCTGGAATTC AGCGTANTAC CTCCAGACCG TGGTGTCTGG 120
 CCTCCATTTT TGTCTGTNAT TCAGCTCTGA CTTACAGCTG CAGTCACCTT TNCTATAAGG 180
 CACCTGGGTA GAAGGGTGGG TGGGCTTCAC ATCAAATTTT TTNCTTCCTT TAGGGTGGGG 240
 NATTGGNTTG GCTNTNTTTT GTNGTGGNN 269

SEQ ID NO:6129

SEQUENCE LENGTH:47

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07287

SEQUENCE DESCRIPTION:

GATCTGTCCT CCAAATCCTC TATTAAACCT GATAGCTTGA GCACAAA 47

SEQ ID NO:6130

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07288

SEQUENCE DESCRIPTION:

GATCAGCCCT TCTCAGCCTC CCAAAGTGCT GGGATTACAG NTGTGAGCCA CTGTGCCCGG 60
 TTCTGTGGCC TTTCTAACA TTATCCAAGN NGCCCTAAGG TTCCTTATGA CAGGTTTGGG 120
 GATTGGGAAA GTTCAATTTT ATTGTACCGC CAATGAAAAG GTGCTATATT TTTTCTTGA 180
 ACCTNAAGGG CAGAGGCTGA ATTAATCATA TTCCTCAGCT CATTCCACAT TATCATGGCA 240
 AAGCTCTCTT TTGCTTTATT TATTTATTCT CTNNTATCTT CATACTTAAT CTCATTCCAT 300
 TCTCTGNCAT GGGCAACCAT NNNAATNGNN 330

SEQ ID NO:6131

SEQUENCE LENGTH:333

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07289

SEQUENCE DESCRIPTION:

GATCTTACAT GAGCATAATC ATCCTTATAC TTCATGAGGG GATTATNAGT ACAATCCCCA 60
 TTTTACTGTG TTTGAGTTAA AAACCAACA TCCCTGTAAT TTAATTTGAA GATTCTTTAA 120
 CAGATTGCAG CAAAGTTTAT TATAAACTG TTATGGTGTG TTCAAAGNCT TGATAAAANT 180
 AACACTGNGA GAGANTTGGT CCATTTGTAT GCTGTATTTC TATTACTTGC CAAANGGAAT 240
 GGGGNTAGGA TTAACCTTGT TTCCATTCTC TTCNCATGGG TATCCATCCC CATGTTTANC 300
 TGNCCACNCT GGGGGGCTCN GTTGTGTGCT GTN 333

5 SEQ ID NO:6132
 SEQUENCE LENGTH:21
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07290
 SEQUENCE DESCRIPTION:
 GATCATAAAT AAATGTTTAA A 21

10 SEQ ID NO:6133
 SEQUENCE LENGTH:331
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 15 CLONE:HUMGS07291
 SEQUENCE DESCRIPTION:
 GATCATTTTC AAAAATTGCA TTGGGGCCTT CGTTATTTAC CATAGTATTT NCACTTTCAT 60
 AGTTTTGTCA CCTTTTGTG CTGTGAACAG TTCAACCACT GACCGACTTC TCTCTCATGC 120
 20 TGTTTACCCC ACACACAATT TCCCACTCAA TTCTGAAAAT AAGAACCTGT TAATAGGTTG 180
 GAAAGCTGTG TACTCTATTC ATATATTGTC CTTTCATGCT AGTGGAGAGT GGTGTCATTA 240
 GCATCTNAAT TTTAGAGTTG TGNAATGATT TTNCCAATTA GGAATTGANT GTGTATTTNT 300
 NTCCTGTTTA ATAAGNNGNG CAAATNTGNT N 331

25 SEQ ID NO:6134
 SEQUENCE LENGTH:40
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07292
 30 SEQUENCE DESCRIPTION:
 GATCTTAAAA CAAAATGAAA TAAACGTGAA AAGGAGCAAA 40

35 SEQ ID NO:6135
 SEQUENCE LENGTH:53
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07293
 SEQUENCE DESCRIPTION:
 40 GATCGTGAAT AGTAAGTATC ACTTCCATAA ATAGAAAGTG TCAGAAAAAT AAA 53

45 SEQ ID NO:6136
 SEQUENCE LENGTH:336
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07294
 SEQUENCE DESCRIPTION:
 50 GATCTTGAAG GAGGTAAAAT AAACCTTCAC TGCTCCACTC CAGGTGAATC CGCCCACTCC 60
 CACTGACCTA GTAGAATTG TAATTTAATA CTTACCTTCT ATTTCTGAAA TCAGTTGTGA 120

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5 ACTGTTGCCT TATGTTGAGA GGTTTAAGAA CCTCAGTGAA TTCATTTTTT AAAATCTGCT 180
 ATTCTGAGAA GCATTGAATG AATTCTTAAC AAGAAGNCTC ATCTGTAGCT GTTTGCTGAC 240
 TCCTATGAGC CCATAAGGGT TCTGTGCTTA GCATTAAACA ANTAAGGTTT ATAGGGTAAA 300
 AGCCAATGTA TTANTTTTTT TTTGCATGGG GGGCNN 336

10 SEQ ID NO:6137
 SEQUENCE LENGTH:235
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07295
 SEQUENCE DESCRIPTION:
 15 GATCTAGGAC ACTCATATCC AGGGTGATTG TCTTCATAAG GAGGCATGGG CTGAGTCTCC 60
 ATTTATAGGG GCTGTCCCA TAGAGACTTC AAGCCACACC TTTCTAGGGA TTCAGGTTGC 120
 ACATTACCTG ATTCTCACAG TTGATTTGAG CCGCAAGAC TGTAACCCA TCCCATTATC 180
 ATGTTTCTT CCTCATTTAC CTACATTTAT CATTAAACCT TTGTGATTCA GCAA 235

20 SEQ ID NO:6138
 SEQUENCE LENGTH:142
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07296
 25 SEQUENCE DESCRIPTION:
 GATCCAGGAT GACTGTACAT CTCAGATAAA GGAGGCTCAG CGCTGGAAGG ACAGCTGGAA 60
 GCAGTCCCTG CACACTATCC AGGGCCTGTA TGTGTGACCC TCCGCCCCAC CATGAATAAA 120
 CACTTTCTTA TACAGACTCA AA 142

30 SEQ ID NO:6139
 SEQUENCE LENGTH:277
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 35 CLONE:HUMGS07297
 SEQUENCE DESCRIPTION:
 GATCCGCCAA GCAGGGCAGT ATCTGGGTTA CAGCCACAGC AGGAAGAACC ACTGGAGAGA 60
 CACTCAGAAG GACTTCCCTG ACATCTGCAC CAAGGAGAGT CTGGACAAAG CTAAGTAAAC 120
 TCCTCCACCT GCTTCTAAAA TGCCAGAAAG CCAACTGGAC CNGTTTGGTA TTNGAAGTA 180
 40 GGNNGNTGGN GGCTTTAACC NCCAAAGGGT TCCTGAAGCC CNGGAACCTG GANTNTGGAG 240
 GGGGTTNNGG CCTTANTTGA GGGTTGGTGG GTTTCNN 277

45 SEQ ID NO:6140
 SEQUENCE LENGTH:247
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07298
 SEQUENCE DESCRIPTION:
 50 GATCAGAAAA CATTGATTTA TATTTAAAAA TAGGATATTG GAGCCATTGT CTTAGATAAT 60

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TNCAAGGCA AGANCAAGCC TGCAATAAAT AATGAGACTT TGACATTCCT TGGCGAAGAA 120
 GATGTCCTCCT GCCCTAATAT GACTGTCACT CAGCAATTC ANTTTNTGT TTAATTGATT 180
 TANAANGGGA GGATAANTTG TCCTGANAAG TTTTTTGTG TCCTTAACAT TTCANNGTTT 240
 TCNCTGN 247

SEQ ID NO:6141

SEQUENCE LENGTH:228

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07299

SEQUENCE DESCRIPTION:

GATCCCTGAT GGGATGCCTG AAACCCAAAA TACTCTTAAG TCTTGTATTC TAGGGCCTTC 60
 TAAGGCAAAA NATTGAGAGA CCAAAAAGA GAAAATATGT TTAGTAAAGA AAATATTTNC 120
 TTTGACTAGT TATGATGGTC ATATAGGGGA GANAAGGCAA ATTTTGNAA TGTAAGATGG 180
 GGACANTTAA TGTNTATNCN CTGTCCAANT TCAANAGGTA CAACNGAN 228

SEQ ID NO:6142

SEQUENCE LENGTH:228

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07300

SEQUENCE DESCRIPTION:

GATCCACCTG TCTCTTGAAA ATATAAAAAG ACAAACAGG TTTGCCTTG CATCAGAGAG 60
 CACAAAGATT AAAAGTTACT TTAAATTTGC CAATATTTG GGAGANCAAT AAANTACAT 120
 TTTCCCTCT TCCATACTGG TAGATGCGAA ATTNATCTGT GCATGANAGG GTCACCTCTG 180
 TNATCGTGCA ACAGNTTTGG TATTANNCCT TNNCTGTGGT TTNCCAN 228

SEQ ID NO:6143

SEQUENCE LENGTH:299

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07301

SEQUENCE DESCRIPTION:

GATCCTCTGA TATACAATTA GAGATATTTT AATATAGNCC CCAAGCATTG TGTGCATAAA 60
 AGTTAACATT AGGCTGTGGT GCAGTAACCA TTAAATGTCG AGGCTCTATT TCGGAAATAC 120
 ACTACAAATG TTAAAGTACG TGGCTGTCCT CTTAAGNCAC TAGTAGAGCA AAGCCTTAAT 180
 CATATCANCT TAATTCTGTT ACACAATATG TGTITTTNAA TATACTANCC ATTTCTNATG 240
 GAANGGTCCT GTGGGNGGCC CNTCCTCTCG CCANGCCATC ACAGGCTCTG CATAACGN 299

SEQ ID NO:6144

SEQUENCE LENGTH:152

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07302

SEQUENCE DESCRIPTION:

GATCGGGTGC TAGGACAAC T GCAGTCCAAT CCACCAGCTC TCCNTGCCCC TGTGTCTTAT 60
TTCAGACATG AGAATAACTG TACAGTGTAA ACTTATAAAG CGTTTTTAAT GGTGTAGAT 120
TGGAAATAAA GTATGTCATA TGAACAGCTA AA 152

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SEQ ID NO:6145

SEQUENCE LENGTH:131

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS07303

SEQUENCE DESCRIPTION:

GATCCACCT GCTCAGGCCG TACACCTTAT GGGGAGCCAT TAAGGGGNC TATCTAGGCA 60
TTCTGGTAC AGCCAGTGC TCATCCAGC GTATGCTCCN CTCTNTAGNG CAGCCTAAAG 120
NGTCAGCCAC N 131

15

SEQ ID NO:6146

SEQUENCE LENGTH:154

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS07304

SEQUENCE DESCRIPTION:

GATCTTCAGA GAAATAAAC TTGAGTGCAG TAGTTTATTT GCGGTTTGGC TCCAGGATGC 60
AGGNGTGGGA AAGATGGTAG AGAGCCAGAA GAAAANTCAA TAGAACGGTA TTACGGCGNN 120
TGGNTATATA ATNCTTCCCN GAATTGTCTG ACTN 154

25

SEQ ID NO:6147

SEQUENCE LENGTH:251

SEQUENCE TYPE:nucleic acid

30

TOPOLOGY:linear

CLONE:HUMGS07305

SEQUENCE DESCRIPTION:

GATCCAGTGC TATTCTGTCA CCAACCTAAG AATCCCAATT GCACCTTCTG TTTCTGACAG 60
TCACAGGTGA CAGCTGNGGN TCTATAATAC AGACTGGTGT CTTAGAGGTA GGAATAATAC 120
ATGATTATNA AGCATACCCC TGCTAATACA TAATAATGTC TTTTATATT ATAAGNGATT 180
GAGTTTAGTT CATTNCAATA CATTGTACN TGTA AAAANT GCAANGTNGA CCTNNGTAAT 240
CNTTTAATCG N 251

40

SEQ ID NO:6148

SEQUENCE LENGTH:213

SEQUENCE TYPE:nucleic acid

45

TOPOLOGY:linear

CLONE:HUMGS07306

SEQUENCE DESCRIPTION:

GATCTCGGAG ACTCNGTCCA TTCTAAGATA CCATGTTTCC ATGACCTAC ACACAATAGC 60
TACACAGGTG GAGCAACATG AGTCTGAGNA GCTTTGCACA AAAGANGCTT GTTTTCACA 120
AATGNANCTG GGGTGGTTAA CTTCTAATTG TACCCTGTCT TAGCGTTCAG ATGCATTGGT 180

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TCCTTCCCCA ATGTGACCAT CTNNNNATTC NAN

213

SEQ ID NO:6149

SEQUENCE LENGTH:113

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07307

SEQUENCE DESCRIPTION:

GATCAAGATG AATNTAATGT ATAATCAGAA TCCTAGGTAA GTAAACAAAA AAAGGGTTTT 60
 TTTNAGAATC AAACCTTTGG GGATTGGGTG GTAAAGGGAA ATATTTNTNT NCN 113

SEQ ID NO:6150

SEQUENCE LENGTH:228

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07308

SEQUENCE DESCRIPTION:

GATCTGTGCA TCTGGCCAGC ACTGTGGTGA CATCCTTAGG AATCCATGGG GAGAGAGAAA 60
 GCATTAGGTA GTTAGTGGGT CACGTTTGAC AAGGGCCAAT AAAGAAATAT GCAAAGACAA 120
 AAANCAAGAA GNACATTGTC ATATTNCTA CCTTTTGTTC ATATAAATTT ATNTCANTGA 180
 TTTTCGCTTN TGTTAATNTG CAATGTATAT NNTATGCTAA CNTTTNCN 228

SEQ ID NO:6151

SEQUENCE LENGTH:42

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07309

SEQUENCE DESCRIPTION:

GATCACAATT GTGGACATTA AAACAGAAAC TGTTACACAA AA 42

SEQ ID NO:6152

SEQUENCE LENGTH:311

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07311

SEQUENCE DESCRIPTION:

GATCCAGCTT ATNCTTTAAT TTTCAAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60
 TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT GTNATGTTGG CAGGGGAGGG 120
 GAGACCTGGG TGGTGACTGA GTTCCCTTTA TCAAACCTT CAATGGGCAC AAAATTGAGT 180
 GCTTGATTTT AGGTTTTTATT TTTTNATGAA TGTCCAAATC TGTGTTTCCC CCTGCCATCC 240
 CAGACTNTGT GGCCAGTTNA AAAGTGTCTG GNNTGTGTTT ANCTCTNCCC TAANATNCTG 300
 GAGNAGGGGT N 311

SEQ ID NO:6153

SEQUENCE LENGTH:270

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07312

SEQUENCE DESCRIPTION:

GATCTNNGTG GGTAGCCTCA AGCTGGAGAC ATTGTCTGNC CTCACTGCCC ACTGGGTAGA 60
 GACACCTGGA TGACATTTCA GTACCCGCTG GCAGCTCCTC CCACTCATCC AGAGACGGCC 120
 GGTGGGCAGG CGGGGAGAGC AGCTTTCCTT CCCTGGNGAG AACCGTCTTT ACCTCAGCTC 180
 CTAGGGNCTC CAGCCAACAA AGCTNCAGCA CGGTGACTNG GTGATGGGNG ACCAATNNCA 240
 GAAGTAAANN GACTGTAGAC CNATATTCN 270

SEQ ID NO:6154

SEQUENCE LENGTH:40

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07313

SEQUENCE DESCRIPTION:

GATCAAATTC TAAAATAAAG TTGCCTGTTG TGACTTTAAA 40

SEQ ID NO:6155

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07315

SEQUENCE DESCRIPTION:

GATCTATACT TAACATATTT AAAATAGTGA TGATTGAAAT AACTGCAAGG TATAGATGNA 60
 ACTGAAGGNT TTCACATTCC TTTTGTGTT ATCATTGGGA ATTTNCTGTA TTTANCTGNC 120
 TAGAGANCAN 130

SEQ ID NO:6156

SEQUENCE LENGTH:173

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07316

SEQUENCE DESCRIPTION:

GATCATATCA CTCAATGTGG CCATTAATAT TTCTGGAGAA GACACAAACC TATTTATAAT 60
 ACTTTTNAAA AATCCGAAGT GATAATAAGA NTGTTTTTAC ATTGAAAGTA ATACTTAAGT 120
 GTTTACATAA CATTCTGTAT GCACTCAAGA AAATAAAGTT TTGTTAATAC AAA 173

SEQ ID NO:6157

SEQUENCE LENGTH:248

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07317

SEQUENCE DESCRIPTION:

GATCTCAGTT ACAGTTTTTT TTTCCTTTTT AATTTCATTA TTTTGGGTTT TTGGTTTTTG 60

5 CAGTCCTATT TATCTGCAGT CGTATTAAGT CCTATTGCTA GAATAGGTGA CTNNANGAAA 120
 GATTATATTC TGAAAGAAAA ATAAGTACATA TTATATATAA CCAATTAATT TAANGTATTG 180
 CCATTTAAAT TACACACTGN GAGCATGTCC TATGCAGACA ATAGATTTTN CCTGTNCAAN 240
 NNNTTNTN 248

10 SEQ ID NO:6158
 SEQUENCE LENGTH:187
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07318
 SEQUENCE DESCRIPTION:
 15 GATCCAGCAG CGCAGGCAGG AGCTGGAGCA GTCGCTGGTT GTNCGCAACA CCTAGGAGCC 60
 CAAAAATAAG CAGCAGCAGC GAACTTTTCAG CCGTGTCCCG GGGCCCAAGCA TTTTNCCTCG 120
 GGTCTCCAGCA TCACTCCTCT GCCACCTTGG GGTGTGGGGC TGGATTAAAA GTCATTCATC 180
 TGACAAA 187

20 SEQ ID NO:6159
 SEQUENCE LENGTH:21
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07319
 25 SEQUENCE DESCRIPTION:
 GATCATAAAT CCCTGTCTAA A 21

30 SEQ ID NO:6160
 SEQUENCE LENGTH:122
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07320
 SEQUENCE DESCRIPTION:
 35 GATCAAACGT GCTTAAGAGC TAACTCGTGA CACTATGCAG TATTGTTTGA AGACCTGTTG 60
 TTCAACCTCT GTCTCTTTAT GTTAACTGGA TTTCTGCATT AAATGACTGC CCCCTTGTTA 120
 AA 122

40 SEQ ID NO:6161
 SEQUENCE LENGTH:125
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07321
 45 SEQUENCE DESCRIPTION:
 GATCTCTGAC TCATTGTGGC ATATGAGGTG TAAAAATNTTG TCAAAAAAGA ATCTGGTGTG 60
 TAAACCAAAA TCACACTATG GTGGCATTAA ACCGTTCACT TTTATTCTAA ACNNNANCCA 120
 NCGCN 125

50 SEQ ID NO:6162

55

SEQUENCE LENGTH:41
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
5 CLONE:HUMGS07322
SEQUENCE DESCRIPTION:
GATCTGTCCA CGACATGGAA AATAAACTGG ATTTTCAGAA A 41

10 SEQ ID NO:6163
SEQUENCE LENGTH:137
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07323
15 SEQUENCE DESCRIPTION:
GATCCTATAC GTGAAGGAAC ATATTTAATT TCCTCNCTTT ATATTTCTG GTTAAAAATAT 60
CGTCATTATA GTTAGCAATT TGGAACTCTGG CTTACATTGG TTGATACAAA TAANTAATAG 120
ANTANNGCAA NATCAGN 137

20 SEQ ID NO:6164
SEQUENCE LENGTH:88
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
25 CLONE:HUMGS07324
SEQUENCE DESCRIPTION:
GATCTTTTTT CTATGCGTAA TCAGACATAC ATATATACTG CAGTGTATCT CACGTATTAA 60
TTTTAAAAAA TCTTTTGTTC TACTTAAA 88

30 SEQ ID NO:6165
SEQUENCE LENGTH:274
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
35 CLONE:HUMGS07325
SEQUENCE DESCRIPTION:
GATCTCTGTA TTTGTNTTC AACTAACAAC TAATTTNAAA TGTATTGTAT CTTAATNAC 60
CTGTNCTCTT AGATTGTNTT TTGCTAGTAA CCCTTACTCA GCCTCTGCCT TTGGGGCTTG 120
GACTAATATT GCTTGTATGG AACTACAGTA CTGTGACTAA ACATGGAGCT CAATGCAGCT 180
40 ACTGCTTACA ACTGCTTAAA CTTTGTAGTG TGGACTTCAT TTTTTCTGT AATAACANCT 240
TATTAAATCC TNGGTGGTAT GCGGTCCTG GAAA 274

45 SEQ ID NO:6166
SEQUENCE LENGTH:310
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07326
SEQUENCE DESCRIPTION:
50 GATCATGTTC AGAAAGGGAC TCATTTGGTC CCACTTTGTA ACATGGGAAG AGTAGAAGAG 60

55

5 AAAATTAAAT GTGGAAATCA TAAATGCTTT TCTAACAGGG TTATGCTATT CTGTAACACT 120
 AAATGTCTGT CTTTCTCTT AAAAGATTAA GTTTATTAA TTTTGTCTATA CATTCTCTA 180
 TTTGANTATA TCTTAACCAT TTTATGTTCC AAATTCGTTT TTTGTCCAAG ACATTCTATC 240
 AGANTTTTNC TTGCCTCTAT AAATCTGAAA ANTGGGTTCT AGAATGTCCC ACTTGCTGTC 300
 TCTNAGAGTN 310

10 SEQ ID NO:6167
 SEQUENCE LENGTH:307
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07327
 SEQUENCE DESCRIPTION:
 15 GATCCGCCCA CCTCAGCCTC CCAAAGNGCT GGGATNACAG GCATGAGCCA CTGCACCTGG 60
 CCTTAACCCC TCTTTAGATT GGAAAAATA NTTACAACCT TAAAAATAGC TTAGTGTGTA 120
 ACCCTTTGGT AAATAAAGA CCCTTTTATA ATGCACATAT TCCCAACANG GTTAATATAT 180
 TTNGTGAGAT TAAACAAGGC TTGTATATGC TTGACCTTTC TTAANNTATG TCCATGTCAT 240
 ACTATTATGA NTGTACATTT TTATGAGTCA TNANTATTNT TTTCAAAANG CGCTNCAGGC 300
 20 CCNTGAN 307

25 SEQ ID NO:6168
 SEQUENCE LENGTH:74
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07328
 SEQUENCE DESCRIPTION:
 GATCAGAAAA TGTGTGACCT TTTTAAAGTT AAATTGTAA AAAATTTTAA CTATTAAACA 60
 30 TTTTAAATAT TAAA 74

35 SEQ ID NO:6169
 SEQUENCE LENGTH:71
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07329
 SEQUENCE DESCRIPTION:
 GATCTCAGAT GCTAGAAATA GTAGACAAAG ATGTTATTTC CCAGTGCAAA TAAAGAAATA 60
 40 AAGATAGCAA A 71

45 SEQ ID NO:6170
 SEQUENCE LENGTH:306
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07330
 SEQUENCE DESCRIPTION:
 GATCTCAATG TGCAAACTCC TTGGACTCCA GACCCCTGTC TGGTTGGCAC TCCCAGCAGT 60
 50 GTGTGGTTTC ATCAGGAAAT CCTTGCAGCA GGGGTTTAGA TGGTTCCTTC AGGAGGTGGG 120

NAGCCTCCAT AGCATTGAAG GCCAGCCTGC ATCTCGCGGT GTGTGTCCAC TTCTCCNCTC 180
 ACTTTCCTT CACCCATCCC TTAAAGTGA TTGGCTGTNA GGNGCACAGA GGGTGGCAAT 240
 TCCATCTGTN ATGGGNTCAG AAGGCATTNG CCGCCATTNT TGATTNACA TAAAACTGA 300
 5 TGNAAN 306

SEQ ID NO:6171
 SEQUENCE LENGTH:65
 SEQUENCE TYPE:nucleic acid
 10 TOPOLOGY:linear
 CLONE:HUMGS07331
 SEQUENCE DESCRIPTION:
 GATCTGTCTG TTGTTGGAAT TGAGATATTA AAATCCCCTA CTATTATAGC GTTCCTCCAG 60
 15 TCAAA 65

SEQ ID NO:6172
 SEQUENCE LENGTH:33
 SEQUENCE TYPE:nucleic acid
 20 TOPOLOGY:linear
 CLONE:HUMGS07332
 SEQUENCE DESCRIPTION:
 GATCTTCCAG CACCAAATTT AGATGGCCTC AAA 33
 25

SEQ ID NO:6173
 SEQUENCE LENGTH:218
 SEQUENCE TYPE:nucleic acid
 30 TOPOLOGY:linear
 CLONE:HUMGS07333
 SEQUENCE DESCRIPTION:
 GATCAAATGT GTGAGAAAAT CAATGGGTTT TAAAGACTAT TCTATGTCAA CTATAACATT 60
 TAATTTGGGG ATTCTGTCC CTTATAATGT CTACCTCATT TTGGATGGAA TCCTTGAGGC 120
 35 CTGGTTTATT TTCCTTTNCC TTNCTACACA TCGCTGCTCA GAGTGATGAA TGGAGTTGTG 180
 TTTTGAATAA AATATCTATG CATCCNTTTG TGAGCAAA 218

SEQ ID NO:6174
 SEQUENCE LENGTH:186
 40 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07334
 SEQUENCE DESCRIPTION:
 GATCATGTTT TAACTAACTT CATTTTGTG CTGAATCATA ATNNATGCTC TAATGACCTT 60
 TTCTTTCCTA TCCCAACCTT GTGTAATCTG CTCTATTTAG GGCTAATTGT TCCTTGCTT 120
 GTATGTATGT AATGTGTCCT NGTNTTCTTC CTCCTATTN NTNCTCATAA AACTCCATCC 180
 NNTTTN 186

50 SEQ ID NO:6175

SEQUENCE LENGTH:152

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07335

SEQUENCE DESCRIPTION:

GATCCATTCA ACTTGTGTGT ATCAGTAGTT AATTNCTTTG TATTGGTCAG CATTCCATTA 60
TTTGGAATTT ATACAGTATG TTTATCCATT CACCTGTTGA AGGACATTGT TTCCAATGCT 120
TATTACTAAT AAAGCTGTGA TGAACATTCA AA 152

SEQ ID NO:6176

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07336

SEQUENCE DESCRIPTION:

GATCTGTATT TAATGAGGAG GAGCCGAGGC CCCAGCTTCA TCCAGCTTCA ACCAATGCCT 60
GGACCTGTCC ACCTGANAGG CCCCTGGGGC TCCCAGCTG CTGGCCAGAC CCTGGCGCTG 120
CCACAGTCCT GGCAGTCCC AAGGCCATAC CTGNCTAGCC CTTGGNTCC ATCCTGTGGA 180
TGCCCACTCA CCCCTNAGAC TCCTNCTGNC CATGCTGTGG NCGGACTTGT AAGCAN 236

SEQ ID NO:6177

SEQUENCE LENGTH:148

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07337

SEQUENCE DESCRIPTION:

GATCATGCCT GTGTTTACCC TCTAAGCTGA AGCTGCTCAT CAACGGTGAG ATGGCAAAAA 60
GGTGGGTCCA GAAGAGGGGA AAAGAAGGGA GTCTGTGAAA ACAAATGCT GAAGANTCTG 120
CATCAAATAA ACCCTTCCTT CCTTCAAA 148

SEQ ID NO:6178

SEQUENCE LENGTH:155

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07338

SEQUENCE DESCRIPTION:

GATCTCCTTA TTGACCACAG ATTATTCCTC TGTCAGCAC TCCTTATTCT TATCCCTGTT 60
ACAATTCCTA TTATGGTGCA CAAGCTCCAT AAATATTTAT AAAACTGATA TTAATTGANT 120
AAAATATTGT CTAGAGGTCT CAGTCATTCT TCAAA 155

SEQ ID NO:6179

SEQUENCE LENGTH:198

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07339

SEQUENCE DESCRIPTION:

GATCATCTAG ACATAATTNC TGAAGATGAA CTTTGGACC AACTTCTAAG TCACACAGCA 60
 TCATTATCAG ATTTATTACA CAACGNCCTT TNGTTTTNA CTCTATTTCT GAGGAAAAAG 120
 CCTTCCCGAA ATCCGTAATG ANTTNTCCA TGGTAACCCC TCTCCTGTTT TNACACAGNA 180
 AAGTTTCTCT NGA CTGTN 198

SEQ ID NO:6180

SEQUENCE LENGTH:188

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07340

SEQUENCE DESCRIPTION:

GATCGCTGGT TTCCTCTGCA GCGCGAGGGC TCCGGCGACC AGAGGATTCT NCCCGGAAGG 60
 CATTCTGCC GCGCTCCNG GGGCACCCCT CAATTGTGTA CTACGTCCTT GTTTAGTGTG 120
 TATCCGTGCC CACGTAGATG ATGTCTGTAA CGNAGTTTG TTTGAAATAT GAGNATATGC 180
 GGCTTAAA 188

SEQ ID NO:6181

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07341

SEQUENCE DESCRIPTION:

GATCAGTTTA TTATTGATAC ATCACTCCAT TAATGTAAAG TCATAGGTCA TTATTGCATA 60
 TCAGTAATCT CTGGACTTT GTTAAATATT TTNCTGTGGT AATATAGNGA AGAATTAAAG 120
 CAAGAANNTC TGAAG 135

SEQ ID NO:6182

SEQUENCE LENGTH:226

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07342

SEQUENCE DESCRIPTION:

GATCAGTTTT CCNAGTCTTT GGGAAACGGG TTGTGTTTTT TNCCTTTGC CGTGTGGAT 60
 TTCCGGTCCC GGCTGACACC TCCCTTCGTG TGTGCGNCCC TCCCCACCCC TGCCTTTGTN 120
 TCGGTGCCCT GTGTCCGTTT TCTNATGTGG GGATGTTGT GCTGCAGACA AAAAGAACA 180
 NAAAAANTTT TAAATACCA CAAAGATGGN ANAAAANGAC AAAANN 226

SEQ ID NO:6183

SEQUENCE LENGTH:97

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07343

SEQUENCE DESCRIPTION:

GATCGTCACA TGCCGGGGAG CAATGTGGAT GGCCTGGGGA CTCCTGGGTT TTCTCCCTCC 60

CGACTCCCTA ATAAACCCCG TGAACCTTGG AGCCAAA

97

SEQ ID NO:6184

SEQUENCE LENGTH:321

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07344

SEQUENCE DESCRIPTION:

GATCACCTTN AGTNCTNAGC AGGGACTAGG CTTGCAGGTA ANATAATGGG CCAGGGCACC 60
 CAGTCCAGAA GGAGCAATGG CACCTGGGCA GTGCCAGGCC TTAAAGCCCG CTGCTCCTTT 120
 NCGGTAGAGG AGAGGCCCAT CACTGGTGTG GTGGGGTGGG CTCTCCCTTA GGCTTGGGCA 180
 AGGCAGCCAC CTGCCCTTNC TCTCCCTTAG TGTTCCTGG CCTCCCTGCC ATCAGGTTGC 240
 TGGGAGTGA GATGGAGGGA TTATTGAGCA GAAAATNAGT TGGATGGAGN TAAACAGNTC 300
 CCATCCCTGG GTAATGGATT N 321

SEQ ID NO:6185

SEQUENCE LENGTH:292

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07345

SEQUENCE DESCRIPTION:

GATCAGCTTG GAAGCTTAAA GTCCAATCCT TACTTCGAGT TTGTTTTGAA AGCAAATTAT 60
 GAATATNATG TTCAGGGACA AATATAACTT TTNCTAAAAA TGGCCATTGT TTATGAAATC 120
 TGTATAAGTG TGTCTTATA CAAATTTNAG GCCATAAACA AGTGTAAGTT TGTACAATTT 180
 CATAACATGT ATAGCTGAGT TTTTATACTT TATATGTAGG AAGCTAATAT AAAATAGTTA 240
 TGTAAGTGTG ATTTTGGTTT TCAGTTATGT GACTTGTTTT TNCCACCNGA AA 292

SEQ ID NO:6186

SEQUENCE LENGTH:155

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07346

SEQUENCE DESCRIPTION:

GATCCATAAC AGAGATNCAN AGAGGCACCG TGGAGTTCCA GGGTCATCGG TCAGCGAGGA 60
 ACAAGGAGGG AAAGGTGTCT TCCTGCCCCT TGATGCTCAA CTAAGCATCT GTTCCCTAGA 120
 AATACATGTG TCCAGGNNGN NTCCATGGGC TTTNN 155

SEQ ID NO:6187

SEQUENCE LENGTH:301

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07348

SEQUENCE DESCRIPTION:

GATCTTNAGT TGTTTAAATT TTTTTTTCT GCATCTGAAT CTGCATGATT TCCAAACCCT 60
 GTACCATCTG AATTTTGCAT TTNAGCACTT GCACTATTAC TCAGCAGCAG TAACATGGTA 120

ACACTTAAAA TGGTACTCGG GGACCTCCAA AGACTAAACT GNCANGCCTT CAAGGNGCCC 180
AGGGGTACGT TACTTGTCA ACGGCATGGT TTAATCCCTT CTTTACACTT GTGTAAATTT 240
CAGTTACTGG TCATAGNNGG CTTTCAATGT TGGGTGGCCT NTTATTANCN TGTATTATGGG 300
N 301

SEQ ID NO:6188

SEQUENCE LENGTH:203

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07349

SEQUENCE DESCRIPTION:

GATCTTTATC AATATTCTGG ATTAGACAAC AAATNACCTT TCTGGGTGTT TCTTGTAAC 60
TATACTCTG TTTGAATGTT AAACTTTGTT GCTAAAGTTT AATTTTAAGA TGTGTAATG 120
TNCAGTTTAT GTATTTGANC TACAATAAAC CAACCCCTTT NATATATCTG TNTGTATAT 180
GATTATNGTN ACTTAATTNT NAN 203

SEQ ID NO:6189

SEQUENCE LENGTH:316

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07350

SEQUENCE DESCRIPTION:

GATCAAAGCA GGTGGGGCTT TGGGATGTGA AGTGGGTCT NACGCGGGGC CCCACAGACC 60
TGTCTCCGCG TGANTGCCTG CAGGCCCTG CGTCATTCCT CAGCTGCGTG CGAGGCCTCT 120
GGCTTGGAGA GCCTCCCCGC TGTGCACAGT TCTCTCTTG CCAGGGCAGG GCTTGGGGCA 180
GCACCAGGCT GGGGCAGAGG AGGAAAGCAA GAGGACAGAC CTCCAGAAGA GCAGCGGAGG 240
GCGGGTGAGG ATTCCCAT ATACCAGTGT GTGTCATCT ACCCATGAGG AATAAAACCA 300
TGCAGCAGCA TGCAAA 316

SEQ ID NO:6190

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07351

SEQUENCE DESCRIPTION:

GATCCCCAGN ACTGCAGCG AGCCCCGGGC TTCCTTTCTT ACCATTCTGT ATGCTTCCAA 60
GGTGTGACCA TTCAAATAA CNNTATTATT AAGATTATTA ATAAAGATT CTTTCTTCAA 120
ACCAGGAAA 129

SEQ ID NO:6191

SEQUENCE LENGTH:293

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07352

SEQUENCE DESCRIPTION:

5 GATCAGAATC AGAAAACAGG TAAACCTCAC TCACACATTT GGAATCATT GAACAAAAAT 60
 CTAGGCCAAA ATACTGAAAA GCCTATGTGT TTTTAAATT GGAAGTATAT GTAAGGTAA 120
 TGCATTAGT GAACGTGACT AACAAAGACT AATGTGCACA TTAACAGNTG TNCITTTTAA 180
 GGTTTTATGG GAGGCTGTGC ATTGCTCAAA AGCTGTTGGG AACGCCTTCT GACCAGTTGC 240
 CTTCAGAACT AGTTTNGCT GCTCANTAA AANCCAGTGN NTTTACTCNN GGN 293

10 SEQ ID NO:6192
 SEQUENCE LENGTH:52
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07353
 SEQUENCE DESCRIPTION:
 15 GATCTGCATG TGTGACACTG ATTCTTTGGA AATAAAGAGT GGAAGCTGCA AA 52

20 SEQ ID NO:6193
 SEQUENCE LENGTH:236
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07354
 SEQUENCE DESCRIPTION:
 25 GATCTAAATT ITAAAAATAG GAATGAATCT NTTAATTGCA GCTTGTGGAG AGTATAAAAC 60
 ATTTTGAGCA CAATATGCAG CACATAACTT TTCAGATTGT GTTTGCATAG AAAAGGTAA 120
 AATCAATTCT TTCAGTTACT GTATTGTTCA TTTCTGTAA AGGTCTTCCT ACATTGAGA 180
 CGAGACCCCT TAACATAGGC TGCCTTAGTA ACAAATAAA ACAGATGTGT CATAAA 236

30 SEQ ID NO:6194
 SEQUENCE LENGTH:282
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07355
 SEQUENCE DESCRIPTION:
 35 GATCTAGAGG GNGGATTTC AGCCAGGGCT GCTAGACGGA GGCCTACTCT TCCATCTTC 60
 CTGATGGCAG GATGGCCTGG CCAGGGCTG GAAGACAGAG ACCTCCTGCC TCCGCCTCAG 120
 TAAGACGACA AGGAAAGGCA AATGCCCAAG GGAAAGAAAA GGAAGGCTCT TCTCCCCAGA 180
 GTTCCCCATG CAGACATGAG TGCCTGCTCA GTTCAGANTC ACTTCCGAGA ACTCATCCCT 240
 40 AATGCTGCAG ATTTGGGCTG GAACAGATTC AACTGTCTG TN 282

45 SEQ ID NO:6195
 SEQUENCE LENGTH:158
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07356
 SEQUENCE DESCRIPTION:
 50 GATCTTCATC TCTGTTTGC TCCACTTGTA TTCTCTTTC AGTAACTGGA TTAATGCTTT 60
 GAGCCCAAAA TGAGATATAT TTNTAATTAC TGTAATTAC ATGTTGTTG GCTGGGAATA 120

55

CAATACAATA AACTTTATTT TGCATAATGC ATTTCAAA

158

SEQ ID NO:6196

SEQUENCE LENGTH:113

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07357

SEQUENCE DESCRIPTION:

GATCTGGATT ACTATGTAAA TTCACAGNAG TACCGCTAAT ATAATTTTGG TTGCNTGTAT 60
 TANCATCATC TGGTCTGNAA ATGTGGGTTT TTATTTGGCA CATTANATA AAN 113

SEQ ID NO:6197

SEQUENCE LENGTH:323

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07358

SEQUENCE DESCRIPTION:

GATCTGGAGC CACAGTCTGT NTATCTTCCA GTTCATCTCA GTCCTCGAGA AAGGCCCTNT 60
 AAATATGTAA CTTTCCATT TNCCTTTAAC CATGGGTTGT GTGAGCCAGA AAGAGCTTTG 120
 AGAAAGATGG CTGCTTCCAC CAGGGNGGAG GCCTCTNGGT CTGCATGATG ATGGGGCCCG 180
 TTTCTGGCCA NAGGGTGGCT CTGGGAGCAG TTGTNCTGCG GGCTTGCTGG GGGCGAACTC 240
 TAACTGTTGC AGAAACAGNG CTTNATGGCT TGCTNNGGGT ACTTAGCTGG AATATTTTAA 300
 AGTGTCAGNT AAATGTGATN TNN 323

SEQ ID NO:6198

SEQUENCE LENGTH:50

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07359

SEQUENCE DESCRIPTION:

GATCTGTATG TACTTTTAGT TGTATTAATA AAGTGACAGT GAGTGTCAAA 50

SEQ ID NO:6199

SEQUENCE LENGTH:149

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07360

SEQUENCE DESCRIPTION:

GATCACCAG TCCTAAGGTT TCAAAAATC TTTGACATTA GATTTCAAA CTGCACAATT 60
 GANCTTATTG GCCTGTAACT TATTTNCTAA ATGCTCAGTG CTATTTATAT ACTACAGTAN 120
 TTNCCTGTTA AGNNGGCAGT TGTAAAGNN 149

SEQ ID NO:6200

SEQUENCE LENGTH:329

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07361

SEQUENCE DESCRIPTION:

5 GATCGGACTG GAACTGTTCG GCTGCNACCA GAAATTNATT TTCCTGAGTA AATTGCCGAG 60
 AATTAAGAAT GAAGAGGGCC ATTTGCATCT CCTTAAATTA TTCAGTTACC TGCTTTATTG 120
 CTCCATGTGG AAAACTTAAA ATTGTTAAGT TGTGCATTAC TGTATTTNAN CTTGTTGCTT 180
 AGTTTCTNCA TGTTTATTN CAGTAATGGC TGANAGTGTT AACTGTNCCA TACTTTTNGC 240
 10 ACAATGTNCT GCATAAGGTT ACCTGTGTAC AGAGTTTAC TTTAGNTTAN CTAATAATATT 300
 GCCTGGGTTC AGNTTNNATT TCCATTNTN 329

SEQ ID NO:6201

SEQUENCE LENGTH:150

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07362

SEQUENCE DESCRIPTION:

20 GATCTAGGAT GTGGNTGTGG AGTACTTAGC ATCGGAACTG CAATNTNAGG AGCAGGGTTG 60
 TGTGTTGGAT TTAACATAGA TGAAGACGCA TTGGAAATAT TTAATAGGAN TNCAGAAGAG 120
 TTTGANTTAA CAAATATTGN CATGGTTCAN 150

SEQ ID NO:6202

25 SEQUENCE LENGTH:142

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07363

SEQUENCE DESCRIPTION:

30 GATCCAGGCG CCTGGGCAGA GCACCTGCTG TCTGCCCTGC ACTTTGAAGG GTTGTCTGTTG 60
 GGATTGAAAT NAACCAACTG CCGGCTGAGC GGAGGCTCCC TGGGAGTNAC AAGTCCGTA 120
 TTAAATGCT TTCAGTGGNA AA 142

35 SEQ ID NO:6203

SEQUENCE LENGTH:294

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07364

40 SEQUENCE DESCRIPTION:

GATCTATAAA ATTCAGTTT TAAAAAATGT GTTAAGGCTT TGTTTTTGGC CTAACAGGTG 60
 GTCTATAAAG AAGNAAGTTG TATGAGGTAA TGAGAAGGCT GTGTATCCTG ATGTTGTCGA 120
 GGAGTGTCT CTATACCTTC ATTAGAAATA ATTGTNTTTT TACTGCCTTC TAGTCTTCTG 180
 45 TTTCTTACT AATATNCTCT CTTGTNTTAT TACAGAAAGT GGNGTATTGC AATATCCTAC 240
 TATAATTGTN TTGCNCTCTT TGTGTTNATC CCAGTNTNNG TNAGTNTANG CTTN 294

SEQ ID NO:6204

SEQUENCE LENGTH:306

50 SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear

CLONE:HUMGS07365

SEQUENCE DESCRIPTION:

5 GATCCCAGCC CGGCCTTGT GGGACTAAGG TGGCGCTGAG TGGGAGAGCA GCAGGCGATG 60
 CGCGAAAGGC GGGACTTGA GGTTCCTGGAT GTTCCTGTGG ATAACCTCAA GGAGCACGGN 120
 ACCTGGGACA TGACTGCCCC CAGCAITCCT TCTGGCGGCA GACAGNGTTT GTNAGTTCGC 180
 CAACATCCTG CTTTCATGNG AACAGTTTGC TGTTCGCTNA CAGAGCCTCC AGTNGTATAC 240
 10 TGAGTTGGTC ACGACCNTNA TTNCTTCGNN CCTACAAACA TATCCCACTT TTCGNTTNTN 300
 TGGTTN 306

SEQ ID NO:6205

SEQUENCE LENGTH:146

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07366

SEQUENCE DESCRIPTION:

20 GATCTTCAGT AAATATTTTG AAATGAATTC ATTTATGGAA GAATCAAANC TAGGTCAGAT 60
 TGTCAAACC AGACTAAGAA ACTGCATAGG GTNTTTTATG AGGTNTTTAA TGACTCATCA 120
 GCNCCATTAT ANCTGANATT NCTACN 146

SEQ ID NO:6206

25 SEQUENCE LENGTH:298

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07367

SEQUENCE DESCRIPTION:

30 GATCTCACTG CCCAGGCTGG TCTTGAATCT CTGGCCTCAA GCACTCCTCC TGCCTCACCC 60
 TCCCAAGCG CTGAGATATA GACCTGAGCC ACAGCGCCTT GCCAGTTGTT TTATGTTCTT 120
 TATCCTTTTA CTTGCTTGCC TTCTGTAACC TGGGTTGCAT TAAATTTACT CCTACTNGTG 180
 AGTAAATGTG AACCATAGCA ATAAATTTAG TCTATCCCCA GAACCTTCAG TAGCAAGGAC 240
 35 CNATATTNCT ACGGTATTTG TGTGTGTCCA NANANAAATA AAATTACCTT NAAAAANN 298

SEQ ID NO:6207

SEQUENCE LENGTH:28

SEQUENCE TYPE:nucleic acid

40 TOPOLOGY:linear

CLONE:HUMGS07368

SEQUENCE DESCRIPTION:

GATCATTAAA GATAAACATA TTTTAAA 28

45 SEQ ID NO:6208

SEQUENCE LENGTH:205

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

50 CLONE:HUMGS07369

55

SEQUENCE DESCRIPTION:

GATCCTGTTG GCAANGGGAA TGTAGAGCTT CCAGGGTGCA TTGCCCCTG TTCTCATTGC 60
 ATCCCAGTCC TCCAAGTCAG TCTAGCCTTA CTGTACACTT GACAAGTGCT TACTCAGCAA 120
 GTCCCAGACC CAGNCCTNT TATCTCCNAA GACTGGNTTT GGCCATGNCC TTCCTCATCA 180
 GGCCTATGCG CANNANTATN TAGGN 205

SEQ ID NO:6209

SEQUENCE LENGTH:302

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07370

SEQUENCE DESCRIPTION:

GATCCATTTA ATATGTTATC CCCACTAATT AATTTTCGTA TATNATTTCC AATATTTGGA 60
 AAGCTCTTTA TAGCCATTG GTATTTCTTA TTACCCACCT CCTATTTTAA ATATTTATCA 120
 GTCTAAACTT GTGCAGTGA GTAAACATGC AAGTTGTTAT GCTTGAGCTG TATTACCATA 180
 AGTNGCNTTT TANGTAACT GGTGNNTTTG GGCCATAGAT GTTTTGCTT TTTGTTTGAT 240
 TTTNTNTTNC AGGCTAACTG TTNGNGGTAT ACATNTATTT NTCTGTTGTA CAGATTTGAA 300
 NN 302

SEQ ID NO:6210

SEQUENCE LENGTH:301

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07371

SEQUENCE DESCRIPTION:

GATCCCCAC ACCAGCGCCC AAGAAAGGAC CAGCGTTGCA CAGCCCGGTA GAAAGGGTTT 60
 ATTTATGCGC AACGGTTTAC ACAAGCCTTC CTGAAATTCC ACTTTACAGT AAATAAAGCT 120
 GTGCGTTTCC CCTTCCCATG CACAACTGCG TATCAATCTA CAACTGTCAT TTAAGTGTGA 180
 AAAAATAGNG CGTCTCCCTT TTTGTCATCG TTCTGGTAAC ATTTGGCGTA GCATCTGACA 240
 GCACGGAGNT GCTCACTCCT GGACCGGTTA TTTGGTTAAA ACCCAAAATG TTAGGTCGGA 300
 N 301

SEQ ID NO:6211

SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07372

SEQUENCE DESCRIPTION:

GATCCATTTA ACTATTCATC AGAGGTGCTG TAATTTTAAA TTGTCTCTTG TCTCCTTCAG 60
 TTAATTTTCA GAATTAAAAA CATACCATGG GNAAAAAANA CNCNAANCAN N 111

SEQ ID NO:6212

SEQUENCE LENGTH:206

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07373

SEQUENCE DESCRIPTION:

5 GATCCTGGAA ATNAGATGGG CCTTACTCTG TCGACTAAAT GAATAGCTAT TTTCTTGTC 60
 TTTTAAAG TGCAACTCTT GCTTCATGCT GCTTAAGTTA CCAGATGAAT GCTGNGAAAT 120
 AAGTAATCAC AGNCATTTA ATACCATTTC ATTGCTGTTT TACGCGTGT CATTACTTAA 180
 CAAAAAATTA TCTTTAGCT TTTAAA 206

SEQ ID NO:6213

10

SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07374

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SEQUENCE DESCRIPTION:

GATCTAGCCT GCCCTGCCTG CCTGCCCTGG GCGATGAGGT ACGGTGGGGA AGGTGCCTAT 60
 TTTAGAGAAC TTTGTCACAG TATTAAAGTT CCCAGAACAA A 101

SEQ ID NO:6214

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SEQUENCE LENGTH:252

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07375

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SEQUENCE DESCRIPTION:

30 GATCTAGAAT GTAACTAAAT TGCTTATAAA TGTCAGAGCA TTTTNAAG GTACAGTATA 60
 TGGGGATTGT NTCGTTTTTC CTAGCAGGGG AACCTTAGTT AATANTAAAA TACTACTTAT 120
 TTGAGTACT GNTACAGNTT CATTTAAGGC TTGTGTGCAA ATGTGGTCTC ANTCTTTTT 180
 CCCTCCATGA TTTTCTATG TGCTTCTCT GGCATTCAC TNGGTTTTGG TAAANTAANT 240
 TGCCNNTTAA NN 252

SEQ ID NO:6215

35

SEQUENCE LENGTH:257

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07376

SEQUENCE DESCRIPTION:

40 GATCAGGAGT ACCTCCCTCA AGAGTCGAGG GNGGTAGATT TCTACACGCA GAGGAGGTGC 60
 TGA CTCTCA GGCACGCCA GCAGTGNNT GTTGCTTTN TAAGGGAGGG CCACTAAGAA 120
 AGTTAGTGA TTGCAAAGTT GGTGCTTG TGGNAGTTAG ANCAGACCA CATTTTATGC 180
 CATAACTTTA NGAGTTCCAT AGGTGGCGGC GCAGTTCTT CGMATCAATG TNAACTTTG 240
 NGGGGGGTGT TCATTN 257

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SEQ ID NO:6216

SEQUENCE LENGTH:189

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS07377

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SEQUENCE DESCRIPTION:

GATCAGACAT AACTTAGCA TCTTAATGGA AGAAAAATGA GGGGAACCTC AATTATGATT 60
 TATTAAGAC AATTCTATT ACACCCTCCT TTATGACAAG TGACATTTTA GATGTAAAAG 120
 TAAAANCCTT ACCATGCCCT TTTTTTTTTT NGTGGGCCTA CCTNGGGGC NTNAANCCCN 180
 GGGGNCCN 189

SEQ ID NO:6217

SEQUENCE LENGTH:272

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07378

SEQUENCE DESCRIPTION:

GATCTCGCAA TGTCTGCCTT AATATTTTAC AATTAAACCT TTCATATTTA TTATAATTG 60
 GTAATATTCA TTAATTTTCC TGTCTTTTAA AAGTCTTGAT AGATTGTCA AAGTATATGT 120
 NCTTTTCCCT ATGCTGGTTT AGAAGTNCGA NATATCACTT CTAATAGTAA TTATGCTCAA 180
 NTAGGTACAC ATATACATAC ATNTTCTCT CNCNCTTAT ATACTTNTGT GCAATTGGCA 240
 CTTTGTACGT ATGTCATANN NNTGTCATNC CN 272

SEQ ID NO:6218

SEQUENCE LENGTH:74

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07379

SEQUENCE DESCRIPTION:

GATCCTCGGC CTCCCAAGT GCTGGGATTA TAGGCATGAG CCACCGTGCC CAGNCTAATT 60
 TCTAATTAAT TAAA 74

SEQ ID NO:6219

SEQUENCE LENGTH:303

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07380

SEQUENCE DESCRIPTION:

GATCTCGTCT GCTCACCTTA GCTTTCTGCC TTGGCAGCAC GGGCTGCGGA AGAAAGCACG 60
 CTGGGCCAGG AGGCAGGGGT GCCCAAGCCA CAGGGAGCCC CTGGGGAAGC CTGCTCCATT 120
 CTTCTGGTGA CCTTGGCGCT CCTTCACTCA TCTCCCTGC CCCCTCAGGA ACTGGTGGCC 180
 CAGCTTCCAC ACCNNACCT CCCAGTCTCT AGNCTATCCA TCTGTCTGTG TATGGCCTGG 240
 AGTCACTNCT TCCTCANGCC CCCAGGGNAA NGTGTGCTCA AAATAAAAC CAGNGGCTG 300
 AAA 303

SEQ ID NO:6220

SEQUENCE LENGTH:205

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07381

SEQUENCE DESCRIPTION:

5 GATCCCCCTT CCCACATCCG TGCTGTGTCA TTGTTGCTCT GCTTCCTTTC AATGTGTCAG 60
 TGCTGGGGG GAGGGGAGGA GCACCCCTC AGCCCCCTG AACCTGACCA AAAGCCATGG 120
 CTGTTGCTCC NNNCTTTGTA TGATGCAAAT GCTGAAATGT ACAAATCAA CCATGACAAC 180
 AANGAAAAAG GCCTTGTA GCAAA 205

SEQ ID NO:6221

SEQUENCE LENGTH:110

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07382

SEQUENCE DESCRIPTION:

15 GATCATAAAA ATGAAGGAAA ATGCCCAAGC ATATCCCCAA CCCCTCACCC CACAACCACC 60
 ACCACCACAC ATAANCAAGT TGCTGACATA NNAGGGGGAC CTTTTNANN 110

SEQ ID NO:6222

SEQUENCE LENGTH:248

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07383

SEQUENCE DESCRIPTION:

25 GATCGCATCT CATTGTTAAC TCTTTACTGA TATGTTTGTA AATACAGAAG TGAATGTGG 60
 ACATAAAATA GTTACGCTAT TTGGTTAATG GTACTAGACA ACATGTAATT AATGACATTC 120
 AAAAAATTTAT GGCTAGTGAT ATATATAANG TAAAAATTTTC TTGCAGTAA AATATGCCCT 180
 TNATTATNGN CGGGNGGCTA TANGGNCCA ACAGTTTGTA TGAANTAGC TCCNAATCAT 240
 ATCTNTNN 248

SEQ ID NO:6223

SEQUENCE LENGTH:145

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07384

SEQUENCE DESCRIPTION:

35 GATCCCTTTA CACTCTTCAA AAGTGNGAAC CCCAAAGAGT TTTCATGTAT GTGGGTAAAA 60
 TCTATTGATA TTTTCTGTGA GAATTTAAAA ATTATGTTAA AANAATAAGA NGAATGACTA 120
 TTTTNC AAAA CAANANATGA GNTGN 145

SEQ ID NO:6224

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07385

SEQUENCE DESCRIPTION:

45 GATCTGCTTG GTGAAGAGTT CAGGAAAGTA TATCAACAAA GNGTGAANT TTGTGAAGAG 60
 AAATNNTATC ATCAAAATTG GGTAAAGCAT AGNTTTTTTG TATGTTACCA CTAGATGTCA 120

GCATANCTN

129

SEQ ID NO:6225

SEQUENCE LENGTH:212

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07386

SEQUENCE DESCRIPTION:

GATCAGAAAA CATTGATTTA TATTTTAAAA TAGGATATTG GAGCCATTGT CTTAGATAAT 60

TTTCAAGGCA AGANCAAGCC TGCAATAAAT ANTGAGNCTT TGACATTCTT TGGCGCGGAC 120

GATGTCTCCT GCCCTANTAT GACTGTCACT CAGCAATTTT AATTTTATGN NTACTTGATT 180

TAAANC GGGA GGCTANACTT GNTCTGAAAN GN 212

SEQ ID NO:6226

SEQUENCE LENGTH:235

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07387

SEQUENCE DESCRIPTION:

GATCTTACTG AAGATGATGT TCCAGCAGCA GCGACTTAGC CCCAGGAGCC CAGTTTCAAT 60

GGCCTTGCTG TGTGGTGTTC CAAGTGCATT TAAAATGTGT GACACAGNAA CGGCACACTC 120

TTNCACATGC TTTTGNAGTA TTATAANCA CTTTATTACA AATTTGTCTT NGCTATTAGC 180

AAATANAAC GATTATCATT CTTTATTAAC CCACCTNGGC CTTTNNNAAN CCTCN 235

SEQ ID NO:6227

SEQUENCE LENGTH:290

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07388

SEQUENCE DESCRIPTION:

GATCTCACTC TTNCCCAAGC TGGAGTGCCG TGGCAAATC ACAGCTCACT GCAGCCTTGA 60

CCTCCTAGGC TCAAGCAATC CTCCTACCTC AGCCTCCCAA GTTGCTGGGC CTGTAGGTGG 120

ACACCANCAAT GCCCTGTGA TTTTNAATTT TTTTATATAG AGTTGAGGTC TCGGTATGTT 180

GCCAACCTAG TCTCAAATC CTNNGGCTCAC GGCTGTAATC CCCAGCTCTC AGGGAGGNTA 240

AGCGGCGGNN GGNTAGCTTA AGCCNAGGAN TNCGAAGNCC TGNCTTNGGN 290

SEQ ID NO:6228

SEQUENCE LENGTH:249

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07389

SEQUENCE DESCRIPTION:

GATCCATGGG GCCCAGGNCCT AGAGGGCATC CGAGGGGCTG GGCCTTGGCC ACAGCCTCTT 60

GGATGATGTC CTTGCTCCAC CAGGCAGGCC CTTGCTTCTC CCATCAACGA GTCTTGGCCC 120

AGGGGACACT GACCCTCCCN CAGGGAGGAG AGAGGAGTTC CTTNCCTTTA AACGAGGGCT 180

TCCACGACCT CTAAGGGGTG GCGNGGAAGG GAGGAGGATG AGAAGATGNA GATTAAATAA 240
AGGTATGTN 249

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SEQ ID NO:6229
SEQUENCE LENGTH:125
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS07390

SEQUENCE DESCRIPTION:

GATCTATCTC AGGGCTTGTT GTAAGAATGA AATGAAGTAT AAAGCCATGT AGAGCTTGTA 60
GAATATGCCT GGCACCTTGT AAGACCTTAA TANNTGTAA CTATCTAANC ACANAACAA 120
CCNCN 125

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SEQ ID NO:6230
SEQUENCE LENGTH:71
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

20

CLONE:HUMGS07391

SEQUENCE DESCRIPTION:

GATCCTAGTG CTCCTGTCTG GTCAGGGCCT ATCTTTATGT GTTCGTAAA CTTTAAACAA 60
TGAGNATTAA A 71

25

SEQ ID NO:6231
SEQUENCE LENGTH:182
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

30

CLONE:HUMGS07392

SEQUENCE DESCRIPTION:

GATCTGAAAA GTTATTAAGT TCAACTCCAC AGAGGTTCTT AGGAGAATGT TAACAGTCCA 60
GACCTTTTTC ACTACATCAA CCACGGATGA TTGGCATATA AAATCCTACT TAACCTTTAC 120
ATAACTGCAA TACCAGGAAA CAAATATGTC AATAAAAGGA AACATCATT CATTTTTGGG 180
AA 182

35

SEQ ID NO:6232
SEQUENCE LENGTH:233
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07393

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SEQUENCE DESCRIPTION:

GATCCAAAAA ACCATTCAGG CCAAGTNACC CTGACATGTG ACATCTACCT CCCGACCTAC 60
CACCCCACTG GCTGGTTCCA GAACGTCTCT CACCTAGACC TTGCCTCCCC TCCTCTCCTG 120
CCCAGCTCTG ACCCTGATGN TTAATAAAG CAGCGACGTG AGGGTCCTGC TTATCCCTGG 180
TNNGGNNNCA GNTCNATCCT TGCATCANTG GGGAGGACGT GATGNGTGAG GAN 233

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SEQ ID NO:6233

55

SEQUENCE LENGTH:158

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07394

SEQUENCE DESCRIPTION:

GATCAGCCTG TGCCACACTT CGCTCTTGAG GAGCTCAACG GTCTGGCAGG GCAGCAGGAG 60
GCTTTCTGGG CTCTGGNCTC CACGGATGCG TGGGCAGNGG AATGTGGGCT ATGTAGTCAT 120
AATAANTTAG GNCACAGAAA AAAAAAANAA AAAANNCN 158

SEQ ID NO:6234

SEQUENCE LENGTH:51

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07395

SEQUENCE DESCRIPTION:

GATCTCTTTT CATTTGTCAA CCTTTTCAGT AAAGCCCTCT GTTACATCAA A 51

SEQ ID NO:6235

SEQUENCE LENGTH:280

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07396

SEQUENCE DESCRIPTION:

GATCAGCGAG AAGGACAAGA AGAANNTTCT GGACAAGTGT CAAGAGGTCA TCTCGTGGCT 60
GGACGCCAAC ACCTTGGCCG NGAAGGACGA GTTTACGCAC AAGAGGAAGG AGCTGGAGCA 120
GGTGTGTAAC CCCATCATCA GCGGACTGTA CCAGGGTGCC GNTGGTCCCG GGCCTGGCGG 180
CTTCGGGGCT CAGGGTCCCA AGGGNGGGTC TGGGTCAGNC CCTNCCATTG AAGGAGGTGG 240
NTTAGGGGNC TTTGTTCTTT TNGTATGTTT GTCTTTGNGN 280

SEQ ID NO:6236

SEQUENCE LENGTH:199

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07397

SEQUENCE DESCRIPTION:

GATCTAAATA CTGTGTAAA ATATAGAAAA ACGGAGACTC TNATAAGGTT TTTNACCTCT 60
ACACITGAAA GTGAGCTCTT ACAAGAACT AATCAGTGTT TCGTTATTCC ATATCAGTGG 120
CTTTTACTGT CAACGNTTGT GTAAGCTNAC TTATCTGGCA AACTTTTNCCT TTCCAGAANT 180
ACTATCTATN TTACTNTNN 199

SEQ ID NO:6237

SEQUENCE LENGTH:279

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07398

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGGCCTC CCAGAGTGCT GGAATTACAG NCGTGAGCAC CGCGCCTGGC 60
 CAAGNAAAAA TTATTAGAAC AAGTGAGGCA TCACACTCCT CTGCCATTCA GTCAAAAGTA 120
 NGCACCAATT TATTAACACA AACATTACAT AATACATGAT ACAGGCGCAA TCTCGCTACT 180
 GCTAGCACTA CGNNAATGTT GTTCTTGAC TATAACATTA AACTGTAAAA TACTGACAGT 240
 GAAATGCACC NATANNGGNN ACCTGTCATC ACNGGGNNN 279

SEQ ID NO:6238

SEQUENCE LENGTH:21

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07399

SEQUENCE DESCRIPTION:

GATCCAAAAA CTAAC TTCAA A 21

SEQ ID NO:6239

SEQUENCE LENGTH:174

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07400

SEQUENCE DESCRIPTION:

GATCCAAGTA CTCTCTCTCC TAAAGACACC ACCTTCCTGC CAGCTGTTTG CCCTTAGGCC 60
 AGTACACAGA ATTAAGTGG GGGAGATGGC AGACGCTTTC TGGGACCTGC CCAAGATATG 120
 TATTCTCTGA CACTCTTATT TGGTCATAAA ACAATAAATG GTGTCAATTT CAAA 174

SEQ ID NO:6240

SEQUENCE LENGTH:294

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07401

SEQUENCE DESCRIPTION:

GATCTTGAAG AGACCGCTGG CAGCACCAGT ATTCCCAAGA GGAAGAAGTC TACACCCAAG 60
 GAGGAAACAG TTAATGACCC TGAGGAAACA GGCCACAGAN GTGGCTCCAA GAAAAAGAGG 120
 AAATTCTCCA AAGAGGAGCC GGTGAGCAGT GGGCCTGAAG CGGCGGTTGG CAAGAGCANC 180
 TCCAAGAAGA TGCAANAGTT CCATAAAGCA TCCNAGGAN GNTTAAGAAT GCAAAATGGAC 240
 CATTCTCTTG GNGGTTNGG NCATACCCAT NAGCCCNAGG TGACATTTCC CNTN 294

SEQ ID NO:6241

SEQUENCE LENGTH:295

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07402

SEQUENCE DESCRIPTION:

GATCTCGCCC TTACCCGGG GTCTGGTGTA TGCTGTGCTT TCCTCAGCAG TATGGCTCTG 60
 ACATCTCTTA GATGTCCCAA CTTGAGCTGT TGGGAGATGG TGATATTTTC AACCTACTT 120

CCTAAACATC TGTCTGGGGT TCCTTTAGTC TTGAATGTCT TATGCTCAAT TATTGGTGT 180
 TGAGCCTCTC TTCCACAAGC GCTCCTCCAT GTTTGGNTAG CAGTTGAAGN GGTGTGTGGG 240
 TGGGCTNITG GNGTGAGGA TGGAGTNTA AGTGCCNACT NNCNNCTNNN ACCNN 295

SEQ ID NO:6242

SEQUENCE LENGTH:201

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07403

SEQUENCE DESCRIPTION:

GATCTAATCC CTTCAAGGAA GTGATAACAC TGGGAGTGGT AACAAGAGGA GCAGGGAAGC 60
 AAGGGCCAGC CCCTGGTTCT CCATCCCNAT GTGTTNGAGG GTGGGACCAG NTGGACCTGG 120
 TCCAGGCCAG GCCTCATTC TCCTGGNCCN GGCAGGGTCA GAGGGNGGAG GGGCNTGGTC 180
 CAGGNATGGG TCCNTTCAN N 201

SEQ ID NO:6243

SEQUENCE LENGTH:26

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07404

SEQUENCE DESCRIPTION:

GATCTTGGCA GTTGATAAAA CGTAAA 26

SEQ ID NO:6244

SEQUENCE LENGTH:324

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07405

SEQUENCE DESCRIPTION:

GATCGNTGCC TGGTTTGTCT TCTCTGTGTC CTGGAGCAAA GCCAGTTCCT AAAACTAAAA 60
 CTCCATTCTA GTCTTGGGAA GAAAAGTTTC TACTCAGAAC TGGGGAAGGA GTGGAACTTA 120
 TGACTTGGGC CTCTAGGCTG TCTCTGTCCC CTCAGCTCCC CGACATGCAT TTA CTCTCTG 180
 CCGTGGGTCT GCAGTCGCTG CAACCTACCC TCTCTCTGCC TCAGCCTTAC ACCCAAGCAG 240
 TAGGTCTGTG CTCTCCCTGT CTCTAGGTCG NTGAGAGAGG TGCTTTTNTT CATAAAACCT 300
 TTGGGGTTTG GGATTTCCTC AGAN 324

SEQ ID NO:6245

SEQUENCE LENGTH:256

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07406

SEQUENCE DESCRIPTION:

GATCCATTCC GGC GCCTTCC TCTCCAGTC ACCCAGAGGG CCCCACCCC GCGGNCCTT 60
 TCTTCTCAA ATGCTCTCGG CTCTATACCG TGNCTGGGTC TTTTNTCTNT CTCTCTGCCT 120
 GGAAGATTCC TTCTTTNCCC TTTTGTCTTG CCCACTACTG TTTACCCTTC AAGTTTCAAG 180

GTCATGTCAC TGTCTNAGAG AGGTTTTCT GTGNTNGACC TGTTTTNAT CAGGAAGGCT 240
TGCTNNTTTC CATNAN 256

5 SEQ ID NO:6246

SEQUENCE LENGTH:37

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07407

10 SEQUENCE DESCRIPTION:

GATCATTAAA CCTGGCTTGA GTCTCTGTTC TGGCAAA 37

15 SEQ ID NO:6247

SEQUENCE LENGTH:152

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07408

20 SEQUENCE DESCRIPTION:

GATCAAGNTT GNTCTTCTGT GATATATGGG ATATNATGTT TAAAGACCA TCTTGAATA 60
CAATTAGAGA ACTTAGTATT TTGATGTACT AAGACCTATT TTAAGTTTAA TATTCTACTT 120
TGCAAAANCT TTAATTAANG ATGTTATTAA AA 152

25 SEQ ID NO:6248

SEQUENCE LENGTH:213

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07409

30 SEQUENCE DESCRIPTION:

GATCCTGCAT TAAGAAATTC AAAAATCAGT TAATCATCGT TACATGTTGT AAAAGTTGGA 60
TACTGACAGT CTCTAATAGT TTATCATCCA ATNGCANGTA ACCTACAATT TAGGCATAA 120
ACGTTGATGT GTATAANCAAT GNATAACAAG CTANTGGCTG GTCACAGTGT TTTCNCAAAC 180
TACAGNTCAC ACCANGTNTT TCTCCTNTTC CTN 213

35 SEQ ID NO:6249

SEQUENCE LENGTH:274

SEQUENCE TYPE:nucleic acid

40 TOPOLOGY:linear

CLONE:HUMGS07410

SEQUENCE DESCRIPTION:

GATCTCCTCT TAAGCGGAAA AGAGATTGAC CTTCTAGCAG AGGCAAAGAA TGGAGTCTTC 60
TGGGGGCAGC TGCAAAGCGT TCTCCCTAGG ACAGATGGAG CCTCCCTTC CTCATCTACT 120
CTGTGGGTGG TTTCAGGGCC CACGAGTCAA CATNAGGAGT TGTGCTGGTG GTATGTGTGT 180
TGGAGGCTGG GCTGGCTGAT TCACAGTGAC GAGGATGTCA CTAATANCAN GTATTGCGAN 240
TGNTGATACC TAATAANAGN CTTTTTTTCC CAAA 274

50 SEQ ID NO:6250

SEQUENCE LENGTH:216

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07411

SEQUENCE DESCRIPTION:

GATCACCATG CTGGAATGTC CTCTACTGCT GATTCTAACA TCCGTGTCAG TTTTGGACCG 60
 GTTTCAGTAG ATGGATTTTN CTCCNNGNNA TGGGCCATAC TTTCCTGCAT TCTTTGCATG 120
 CTCATAATC TTTGATTGGA TGCCAGACAT TGTAATTTT ACCTTGTGGG GTATTGGATA 180
 TTTTGTATT CCTATAAATA TNCCTGNGCT TTGAAA 216

SEQ ID NO:6251

SEQUENCE LENGTH:319

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07412

SEQUENCE DESCRIPTION:

GATCTAATTT TGTATGTGGG AATCTTGCCT TGCCCTGATT TCCAGACCCA TAGGCAGGCT 60
 TGCAGGCTGT AGCTGGGGAA GACCCACGCG TTATNCTGGT GCCCTGAGCA AGCCCTCCTG 120
 CTCCACTATT AGGCAGAAGC ACCTGTTCTG CCACAGGAGG CGCTGTCTTT TGCTGGCAGA 180
 GCTCAGTTTC CCTTAAGGGG AAGTTCCTTA GGATTAAAGG CCTCATGACT ATCTCAAAAC 240
 CCATGTTTGT TTGCCAATAA AGNAAATAAA TAAACTGTAA AAAANNAANN AACNACCANN 300
 NAAAAAACAC NAACANCAN 319

SEQ ID NO:6252

SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07413

SEQUENCE DESCRIPTION:

GATCTACTGT TTGCATGTAA GAGACCAGGN TATGTAACTC TTATATTTTA AGTGTATACA 60
 TATTGTGTAT ATAACATATG GATATTAAAA ATGGGGANTT GCACATTTAA A 111

SEQ ID NO:6253

SEQUENCE LENGTH:108

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07414

SEQUENCE DESCRIPTION:

GATCCCAGGA ACTGTGGGCA CCCATTTTNT GTGTCTCCCA GCCNATTTCC ACTCCTAGTT 60
 TGTCATGGNT ANTTTTTGT CTCCCTGTG TGAGGGGNGC CATCAACN 108

SEQ ID NO:6254

SEQUENCE LENGTH:317

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07415

SEQUENCE DESCRIPTION:

5 GATCACAACC ATCAGCATCA CGGCCACAGC AGCCAGTGTT GGGGCTGCTG GCATCCCCCA 60
 GCGGGGCTCG GTCACCATGG TCATTGTGCT TACGTCGGTC GGCTTGCCCA CGGAAGACAT 120
 CACGCTCATC ATTGCCGTGG ACTGGTTCCT TGACCGGCTT CGCACAATGA CCAACGTACT 180
 GGGGGACTCA ATTGGNGCGG CCGTCATNGA GCACTTGTCT CAGCGGGNGT GGAAGCTTCA 240
 GGAAGCTGAG CTTACCCTAC ACAGNCTGGG GAAACCCNTA CAAGTCCCTT AATGGNACAG 300
 10 GACGCAGGGG AGCATAN 317

SEQ ID NO:6255

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS07416

SEQUENCE DESCRIPTION:

20 GATCGAGACC ATCCTGGCTA ACACGGTGCT GCGGGAGATA AACTCCCTT GAAGCAGTGG 60
 AGTACAATCA AACATCTTGG CTGCTCCTGA AACCNGGTCC CACGNATTTC AGTCCGGCTA 120
 AGANCGAAGA GCTGGTAAAC CANTAANTTG GGTGGAGGCC GAGAGCTCGG GCGCGCGAGC 180
 AAGCCTCCGA CGANNTGGTC CCCTGGACCN NCNGGTTN 218

SEQ ID NO:6256

SEQUENCE LENGTH:194

SEQUENCE TYPE:nucleic acid

25 TOPOLOGY:linear

CLONE:HUMGS07417

SEQUENCE DESCRIPTION:

30 GATCTNACTC ACAGAGGGAA GAACTTATAA TTCTTCACAG GTCACATAGA AGCATGANAA 60
 TTTGGGTTCA AGCAAGTAAA TTCTAAATCA GAATCCATAC ATAAAGTGTT TGCAATGTCC 120
 AGTTATATCT CCATGATATT TNCTTTGTGG AAGTTGATTG TCCTTCCTTA CAATAAATTG 180
 CTTGANTTGT CAAA 194
 35

SEQ ID NO:6257

SEQUENCE LENGTH:345

SEQUENCE TYPE:nucleic acid

40 TOPOLOGY:linear

CLONE:HUMGS07418

SEQUENCE DESCRIPTION:

45 GATCCTGTGT ATTTCCCTGA GTCTTCTAAC ATATGAAAAT TCATATCTAA ATCAACAAGT 60
 GACTGTAAATC TGGTACTATA AATACTAAAT AAACACTTCT TCATAACACT GTACCAATTG 120
 AGCTTTTAAA TTTNATTACT TTGCTTTCCT GTCCTTTGCC AACTCTTAAC CTAGTTAATC 180
 CTAGTNCTGT TGACATTGGA CCAGGCTCAG TAAATAANCG AATGGATTTC CAGCCTTTTT 240
 TTCCCATCTG TNCCTGCTTT TANGTCCTCT GAATCTGCTT CTTTGCTTNC TGCTGCTTTA 300
 ATTTTANAG TGNTTTTNGT CAAAACATAG GNTNCAGGGN CTNNN 345
 50

55 SEQ ID NO:6258

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07419

SEQUENCE DESCRIPTION:

GATCTGGGT CTAGAGGCA TGTGATGACT GTAAATGTTT ACTGGGTGGG TAGGGAGTGG 60
TATCCAGTGT TCAAGTGCAG AAATCTTTGG CTNGCTACC AGTTCCATAT GATGAGAAAT 120
AAACGTTTCG TGAGGTTTTG TTTCATAAAA AGANNNNNAA AANNTCN 167

SEQ ID NO:6259

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07420

SEQUENCE DESCRIPTION:

GATCCACACT TTAAAGAAA TTCCATAAAT GTATATTTTG TATTATGTAT TATTCCTGG 60
TCCNAAGAAA ATATGTGAAT TCAGTTCTAA CTNNGGANT GACTGTTTG TTTTCANGTT 120
CATTGNAAN 130

SEQ ID NO:6260

SEQUENCE LENGTH:110

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07421

SEQUENCE DESCRIPTION:

GATCCGAGAT GGCACCATTG TACTCCAGCC TGGGCAACAA GAGCGAAACT CCGTCTCCAG 60
ACAAACAAAC AAANCAANAA CAAGTGTCCT TATNNGNATG GGTGTGTTTN 110

SEQ ID NO:6261

SEQUENCE LENGTH:310

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07422

SEQUENCE DESCRIPTION:

GATCTGGCTG TCTAGAGGGA TTCTACGACT GCGTGCTGCC GCCTCCCCAA GAGGCATTCA 60
GGTTATTGGA GAACTAATCT CATCTCAAGG GGCCAGNCAC CAAGTCCCAA AGCCTACAGA 120
CCTCTTTCCG CCAGGCCCTG AAACCTGGCC CCGTGCCAGC AGGATGACAA GCCCCAGGGC 180
GNTCCTGATG AATATGGCTT GGAGATGNTG TACAANTTTT TATTNCCCTN TGGNTTTTGA 240
GGNATGAAAT GATTTGCACT TTTGAAAACC TGTTAACCGT AGGCCNCTTN GGNCANTGAN 300
GNNTGGAAGN 310

SEQ ID NO:6262

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07423

SEQUENCE DESCRIPTION:

5 GATCCACTCG GNCAACCCAA CAGTTTTACC AACCACCCCG GGCTCGGAAC TAATAGGNAA 60
 AGTAGACTCT TTGTGAAGAA ACGAGCCANT NNCTGGAACA CCCTGGTGGA AACCTGTTGA 120
 CANGCCCTN 129

SEQ ID NO:6263

SEQUENCE LENGTH:157

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07424

SEQUENCE DESCRIPTION:

15 GATCACTTGA ATGTTAGGNT TCATAGNACT ATACTAATCT TCTCACAAA GGTCTATAAA 60
 ATACAGTCGT TGAATAAAT TTTGTATCAA ANTGGGGNGG CAAATTNGAA GCTTCTCCTT 120
 AANCTGTATT GATACTGACT TGAATTCTTT TCTANAN 157

SEQ ID NO:6264

20 SEQUENCE LENGTH:171

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07425

SEQUENCE DESCRIPTION:

25 GATCTCCTTC TTTAGCTCAA GGTGTGCTGCA ANTTGGAGCT GAGCTGTCAG TGGAACGNGT 60
 CCTGGAAATN ATTAAGCAAG GCGTCGTTGC GCTGCCCAAN GACAGACTGA AGAAATTTCC 120
 AGANTTGAAA TTCAAATATG TGGAAGNGGA GCAGCCCGNG GNGTTTTAT N 171

30 SEQ ID NO:6265

SEQUENCE LENGTH:174

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07426

SEQUENCE DESCRIPTION:

35 GATCCTACAT TTACAGACAG TTTTGTGATA ACCCTTTGCA TTGCAGCACC TAGTACAATT 60
 CCTTGGAAAC AGCGTGGCTC AATAAATTTT TATTGAATGA ATAAATGTGG GCCCAGAAGC 120
 GTGCTAGANG AGTGCCTTTC TGGGCTACTN AAAAAANNA AANACNAAN AANN 174

40 SEQ ID NO:6266

SEQUENCE LENGTH:123

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07427

SEQUENCE DESCRIPTION:

45 GATCAAAGAC TCCCTGGAGC GAGAAAACAG TTACTGCCAG AAGCAGAATG GAAGAGCCAA 60
 AAAGTACACA AAATGGACGC CATAANTTCT GAAATAAAG TGTATGATGT GTTCTGAGTC 120
 50 AAA 123

55

5 SEQ ID NO:6267
 SEQUENCE LENGTH:174
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07429
 SEQUENCE DESCRIPTION:
 10 GATCTGGGCC TCAAAATACC ATAGTAGCTG CTTGATAAAA TTCTAAAAAT ATCTGGTTCT 60
 CTATTATGTA AACACTATTA CAGTCACCAG TGTGTGAAGA CTCTTGAGTC TGGTTCTCAT 120
 ATCAGAGTCA TCATTTTCT TCCNGTGGAA TAAANTGCCT TGTGGNCTTC CAAA 174

15 SEQ ID NO:6268
 SEQUENCE LENGTH:163
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07430
 SEQUENCE DESCRIPTION:
 20 GATCTTTTCA CTGGCTGACT CTCCCATATC TGCAAGAGAT TCTGCAGGAA CTGGGTGTGC 60
 ACACGGTGTT GTAGCCAGTT CAGGTACTGN ATATTTAGGA TTTGGTGNCG TTCACTGTAT 120
 TGCTATATTT TTGTAGCTAA ATAAANTCTCA ATAANTTGT AAA 163

25 SEQ ID NO:6269
 SEQUENCE LENGTH:192
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07431
 SEQUENCE DESCRIPTION:
 30 GATCTCCAGT ACTTTGTACA ATGTATAGTA TATTAAATAC ATTTATGTGT AATTTTGTGT 60
 GTATTTNTAT ATGGTATAAT TAAAAATNATT ACATTTATGT GATTGTAATT CACAAAANGT 120
 ACTACTTACT ATATNCTGTA GNGTGTGTTG TGAATGTNTT TACCNGTGTT TGAGCATTAT 180
 GNGTAGGGN TN 192

35 SEQ ID NO:6270
 SEQUENCE LENGTH:85
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 40 CLONE:HUMGS07432
 SEQUENCE DESCRIPTION:
 GATCTTCTTT TGTAATGTTT TTCATGTTAC TGCCTAGGGC GGTGCTGAGC ACACAGCAAG 60
 TTTAATAAAC TTGACTGAAT TCAA 85

45 SEQ ID NO:6271
 SEQUENCE LENGTH:284
 SEQUENCE TYPE:nucleic acid
 50 TOPOLOGY:linear

55

CLONE:HUMGS07433

SEQUENCE DESCRIPTION:

GATCCTAGTG AGGGATTGAT GAATGTTCTA AAGAAAATTT ATGAAGATGG AGACGATGAT 60
 ATGAAGCGAA CCATTAATAA AGCCTGGGTG GAATCAAGAG AGAAGCAAGC CAAAGGAGAC 120
 ACGGAATTTT GAGACTTTAA AGTCGTTTTG GGAAGTGTGA TGTGATGTGG AAATACTGAT 180
 GTTCCAGTA AGGGAATATT GGTGAGCTGC ATATATAAAT TTGACAGATA GCTATTTACA 240
 TAGCCTTCTA AGTAAAGGCA ATGAATTCTC CATTTCTAC TGGN 284

SEQ ID NO:6272

SEQUENCE LENGTH:211

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07434

SEQUENCE DESCRIPTION:

GATCAGTATT AACATCCAGG TTTTGATTGT TGTANTATGG TTACCTGGTA GATTACCTTT 60
 GTATATAGGN AATAGACACT GGAATAGTAA GGNGTAGTGG GTCAAGATGT CTGCAACTTA 120
 TTGTTTCAAG TCACTCACAA NTGGGNAATC TGATATAAGG NCAAAANTGGG AGCACTGTGG 180
 CCTNTTTTNN CAACTTTGTGT GTACATCTGN N 211

SEQ ID NO:6273

SEQUENCE LENGTH:170

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07435

SEQUENCE DESCRIPTION:

GATCTCATGA AGTCTTCCTT GGCCCAACCA GGCAGATGCC CCGGGCTCCA GTGGGGGGAG 60
 GGGTCTGGGG TCTGGTCCGG GTTCCCNAAAT TTCTCTTTNN CCCANATCNC TATTTCTACG 120
 CAGTGCNGAT AAAATTTGGA NTCGACTAAA ACCCTTGGTG CCCNGAAAAN 170

SEQ ID NO:6274

SEQUENCE LENGTH:301

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07436

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTCGGCCTC CCAAAGTGCT GGGATTACAG ACGTGTGCCA CTGNGCTCGG 60
 CCTCAGATTC CATATTTNAA CACCAGCTGA TTGAGAGAAG GGGAAATNAGA AGAGCTGGAT 120
 GAGTTTAAAT AACTTTNATT GTTCAGATTC CTGAACAGGN GTTGGGATAA TGGCCATCTT 180
 TNCTTTCTTA TCCTTCCCCC CCTCACTGTG AAAAAATAACA GTCCACCCCA AGTCATACAC 240
 TGGACCCAGT GCCTGCGGGG ACAGGNCTGT GGGTTTCTTG GTCACACCTG TGTGGTGNT 300
 N 301

SEQ ID NO:6275

SEQUENCE LENGTH:198

SEQUENCE TYPE:nucleic acid

EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS07437

SEQUENCE DESCRIPTION:

GATCCAAAA ACCATTTCNGG CCAAGNAACC CTGAAANGNA ACATCTACCT CCCGACCTAC 60
CACCCTACTG GCTGGTTCCA GAACGTCTCT NACCTAGACC TTGCCTCCCC TCCTCTCCTG 120
CCCAGNTCTG ACCCTGATGC TTAATAAACG NAGCGACGTG AGGGTCCTGA TTCTCCCTGG 180
TTTTNGGGGG GNTCCATN 198

SEQ ID NO:6276

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07438

SEQUENCE DESCRIPTION:

GATCTCTACT CAAAGATGTC TTGCAGTTTA TGAAGTGA TGTAAGTTCA TGACTAACAT 60
GATGACATCG TTATTAATA CATAAACTTT ATAAAGCTTA AA 102

SEQ ID NO:6277

SEQUENCE LENGTH:318

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07439

SEQUENCE DESCRIPTION:

GATCTTAATA CCTAATTCA TCATTTCTGA AAATGTAAGT TTTTGAATG TATTACAATA 60
TCAATGTGAA TATCTTGAAT CCTGTTACAA ATCCTGCACT GTATTAAACA TGTAATTAA 120
TTGTTTGTCT GATTAGCCAA TCTCACCACC CAAATGGGGA GGTATACATG TTTGANGAAC 180
TGTGTAAGTC AGTAATTGAT TTGTNCTGAT GTTGTAAGTC ANTAGANGTG TTTTGGAAGG 240
NAGCATGGTG TGTGAGGCAG TGTCTGTCCT TTTGTGCCAG CTCTGTATGN TGTTGTNGG 300
CCNTGTTTGT AGGCCTGN 318

SEQ ID NO:6278

SEQUENCE LENGTH:321

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07440

SEQUENCE DESCRIPTION:

GATCTCGCCA ACAGCTAGCT GCTTAGGAGT ACCCCCACGA TACGCACAGC ACACCACTGT 60
CCCTTCACTG CACTTTCTTC CTGCCTTAGG TAGTTGGGCT TGCCACCCT AGTTTGCTTT 120
TGTAAGTGGT TGGCAAGGTT AGAAGGCCTC GGCCTCTCTG TNATGCTGGG AAGTGCCTAC 180
TCTCTGGGCC ACTGCTGCAG AGGCCGTGGC ACTTGTNATG GGTTTGGAAG ACCCAGCCAT 240
CTGCAGCAGA GGCAGCCTAT TCCCATGCA AGGNGNGGAN TGAACGGAGT AATTATTCTA 300
CTNTTCTTTT TACATAAATA N 321

SEQ ID NO:6279

SEQUENCE LENGTH:290

EP 0 679 716 A1

SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07441
 5 SEQUENCE DESCRIPTION:
 GATCCTGCAC GTCCGCAAGC CGGAGAAATA CCAGCTGCAC CTCCACGAGA GCTGCGTGCT 60
 GTCCCTGAAG TTTGCCTCCT GCGGACGGTG GTTTGTAAGC ACCGGGAAGG ACAACCTGCT 120
 CAACGCCTGG AGGACGCCGT ACGGGGCCAG CATTITCCAG TCCAAGGAGT CGTCCTCAGT 180
 10 CCTGAGTTGT GACATCTNCA GAAATAACAA ATACATTGTN ACAGGCTNGG GGGCCAAGNA 240
 GGGCACCGTG TATGNGTNG TNTNCTTNGG CCATTNNCCC NTTCTGTNN 290

SEQ ID NO:6280
 SEQUENCE LENGTH:130
 15 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07442
 SEQUENCE DESCRIPTION:
 20 GATCCAGTCT NTGGTATCAT GCTAGTNCCT ACAGGGCCTT GATAGTCTAG AGTTGGAAAA 60
 GATGGTAAGC TTTTGTNAGN GTTTAACAT TTNCTTGATG AAACAATAAA AAGAGGTAAG 120
 CTTTNCCTN 130

SEQ ID NO:6281
 25 SEQUENCE LENGTH:192
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07443
 SEQUENCE DESCRIPTION:
 30 GATCCAGTTT TGTTGGGAC CAAAAACCAG TATTGTACAA AGTATTAAGC ATATATTTN 60
 ATATTACTA AAATNGACTG TGGTGACTTT GGATAATAAG NAAAANTTTA ATATTAAANC 120
 CATGTTTATT ACAGTATAAT TAACATGTTA AACCATGGGG NTAAATGCCA TCANTAAAAA 180
 ATTATGNCAT NN 192
 35

SEQ ID NO:6282
 SEQUENCE LENGTH:125
 SEQUENCE TYPE:nucleic acid
 40 TOPOLOGY:linear
 CLONE:HUMGS07444
 SEQUENCE DESCRIPTION:
 GATCCACCCC CTGCCCACAA AACATTGCTC CTAATCCAC CGNCTGTCCC AAAACCTATG 60
 NGANCTAATG ATAATCCCAC CACACTTTAC TGACTNTNTT TCCAGACTCA GCCCGGCTGN 120
 45 ACCAN 125

SEQ ID NO:6283
 SEQUENCE LENGTH:301
 50 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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EP 0 679 716 A1

CLONE:HUMGS07445

SEQUENCE DESCRIPTION:

5 GATCTGAGTT GCAGCTCTGC ACCCTAAATC ACACCCTGGG CATTGTCTGG GCTGCAGGGC 60
 TGCCAGGTTC TGTACTTGTG TCCAGCTATG GCCCTGGNTG CTGGAGCTGG AGGGTTTCT 120
 GTGCTCAGAC TGTAAGCCTGT AGCTCTTGGC CTGTGTAGAG CCCCCTCCTG TGCCCTCAGT 180
 GGCTGTGCTT TGTTAACATN ATCAGGAAGA TGGGAAAGGT CAGGCAGNAT TTTTCTGNCC 240
 TACAAAGGNN GGNNGAGAAA GGACACAGTA TTTTNAATGA NTTTACCATA TATCTTTGGN 300
 10 N 301

SEQ ID NO:6284

SEQUENCE LENGTH:108

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS07446

SEQUENCE DESCRIPTION:

GATCCTTGNT TTCTAAAAGC CAGTCCTNCC CTNCAGCTTT CCACAGTTTC TGTAATGTT 60
 20 TAATACTTNT ACAGTCAATG GCAATTTTAA ATATATATAT ATAANATN 108

SEQ ID NO:6285

SEQUENCE LENGTH:159

SEQUENCE TYPE:nucleic acid

25 TOPOLOGY:linear

CLONE:HUMGS07447

SEQUENCE DESCRIPTION:

GATCTGGGGG AAAGGCTGCC AGGGCCAAGA GGCTCGTCTC ACTCCCTGCC CTGCCATTTC 60
 30 CCGGAGTGGG AAGACCCTGA GCAAGCAGCA CTGCCTTCCT GAGCCCCNGT TTTCTCATCT 120
 GTAAAGTGGG GGTAAATAAC AGTGATATAG GNGTGCAAA 159

SEQ ID NO:6286

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

35 TOPOLOGY:linear

CLONE:HUMGS07448

SEQUENCE DESCRIPTION:

GATCACTTGA CTCTTGTAAG CGGACCTATA CTCAAAAGGC TTTGGCACAC TGTCACGNTA 60
 40 TTAGTATACA AATGTGCATT TGTGTTTAAG TTAAANTGAG GTNTGCNNGG TAAACTGCNA 120
 ANTAN 125

SEQ ID NO:6287

SEQUENCE LENGTH:63

SEQUENCE TYPE:nucleic acid

45 TOPOLOGY:linear

CLONE:HUMGS07449

SEQUENCE DESCRIPTION:

50 GATCTACAGT AATTATTCT NTCTAAAAGT AAAGCATTTT CAAAACCTCAG TATTTAAACC 60

55

AAA

63

SEQ ID NO:6288

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07450

SEQUENCE DESCRIPTION:

GATCTTTTCC ACTGGNCTAC TACCTGACCA TAAACATGTC TGCATTTGAA TTCTCTAAAC 60
 CCTAAATCTG TGTCTATGAA AAATACAAAT GACTATTAAA TAAA 104

SEQ ID NO:6289

SEQUENCE LENGTH:123

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07451

SEQUENCE DESCRIPTION:

GATCTACCCA CCTCGGCCTC CCAATGTGCT AGGNTTACAG GCATGAGCCA TGGCGNCCGG 60
 NCAAGTTTCT ATTCTTAAAA TAAAGAGGTT ATACATCTAA NTTACAANTC GTGGCCAAAA 120
 NGN 123

SEQ ID NO:6290

SEQUENCE LENGTH:296

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07452

SEQUENCE DESCRIPTION:

GATCTGCCCC NCTCAACCTC CCAAAGTGCT GGGATTATAG GCGTGAGCAC CGCCCCCAGN 60
 TGATTCCAGG CGAATTCTTC TCTGATGGGC GGGCGAGGGT GTGTTCTGTG GATGGGTGG 120
 NGTGTGTGTG ICTNNGTACA CAGATGATGT GTTTCCCTT CAGCTTCTTA CGTTTCTGA 180
 GCATCCGTTG TGCCTTAACA TTTTCTGNTT GTCCTTTGGG NCAAGCAGT ATTTTACTNA 240
 TNCTTTGAAT GTTCTCATTC TATTNTATCA TGTGACTTAT TAAAANNAGN TTNTAN 296

SEQ ID NO:6291

SEQUENCE LENGTH:228

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07453

SEQUENCE DESCRIPTION:

GATCTGATGG ATTAATAAGG GGTNTCCCN ATTGCTTGGC TCTCATTCTC TCTTGTCTGC 60
 TGCCATGTAA GATGTGCCTT TTGCCTTCCA CCATGATTGT NAGGCCTCCC AGCCACATGG 120
 AACTGTGAGN TCATTAAACC TCTTTTCTT CATAAATTAC CCAGTCTCGG GTATGTCTTT 180
 ATCAGCAGTG TGCAAGNNGG GGNGNTACAC CACTNCTCTA ACTANNTN 228

SEQ ID NO:6292

EP 0 679 716 A1

SEQUENCE LENGTH:176
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07454
 SEQUENCE DESCRIPTION:
 GATCCTGTGG TCAGAGGCCT CTTTGGCAGT GTNTTCTTAC CCTTAAGNAA GGTCATGAAA 60
 TCCAGAAGGG GCAACCTTTN CAGGAGAGCT TTGGAGTCAT TTCTGTGTGA GNCACATTG 120
 CATAATCCTG NCAGNTTGCT TTTATATTTA AGGANTGATG TTACTTANCA ACTGAN 176

SEQ ID NO:6293
 SEQUENCE LENGTH:310
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07455
 SEQUENCE DESCRIPTION:
 GATCTGACTG CTGGCTATAG GATTTTGGAC TTAATGACTG AAATTGCAAA TTGTCCTTTT 60
 TCTTGGCATT ACAGATTTTG CCAAAAATAAC TTTTGTATC AAATATTGAT GTGTGAAAGT 120
 GAAGGAGCTA GTCTGCTGAA CCAGGAATAG TTTGAGATAT TGAAGTGTCA TTTTGNACA 180
 TTTGAATACT TTGCAGGCTG GCTTTGTATA AACTTATCCT CNGGNNNCCT ATATGTTGTA 240
 AATATNTAGN CCATAATTCC ATTATAANTA AANCCTATAA ACTATTCAAA CNAANANCAA 300
 ANAACANANN 310

SEQ ID NO:6294
 SEQUENCE LENGTH:258
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07456
 SEQUENCE DESCRIPTION:
 GATCCCAAAA AGTTTCCTTC TGCCCTTTTT CAATNCCTCC TTCCCGCCCN TCTGCTTTTG 60
 TCATTATATA TTACTTTGCA TTTCTAGAA TTTCATATAA ATGGAATCAT ANAGTATCTA 120
 CTCCTTGTG TTGTCTGGCT TCTNTCACTC AGCATAATTA TTTTGAAACT TATCTATGCT 180
 GNTGTGGGTA TCAGTAGCTC ATTANCCNAT TGTGCTGAG TAGTNTTTNA TTGTATGANN 240
 GTGCTACACG TTATNCGN 258

SEQ ID NO:6295
 SEQUENCE LENGTH:31
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07457
 SEQUENCE DESCRIPTION:
 GATCTTAATA AATAATACCT TACTGCTTAA A 31

SEQ ID NO:6296
 SEQUENCE LENGTH:38
 SEQUENCE TYPE:nucleic acid

EP 0 679 716 A1

TOPOLOGY:linear
 CLONE:HUMGS07458
 SEQUENCE DESCRIPTION:
 5 GATCTATGTA CAATTTTAAT AAAATCCTGT CCATGAAA 38

SEQ ID NO:6297
 SEQUENCE LENGTH:73
 10 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07459
 SEQUENCE DESCRIPTION:
 15 GATCACCTAC TAAGANGTAC TTCCTACNTT TCATTCTTTC TTTATAAGAA TTAATTAANT 60
 TTTAATTGAC AAA 73

SEQ ID NO:6298
 SEQUENCE LENGTH:311
 20 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07460
 SEQUENCE DESCRIPTION:
 25 GATCCACCCA CCTTGGCTTC CCAAAGTGCT GGGATNACAG GCATGAGCCA CCGCACCCGG 60
 CCCTATCTCA AGCTTCTTAA CTGCACCTGC TAAATCCCTT TTGCCATGTA AGGTAACGTA 120
 CCAACGGTTT CAGAGNTTAG GNTGTGGNCA TTTTGGGGGG CTGTTTTTCT GACTGCAATA 180
 CCTGGTNTCC AGTGAATCCA TGTTTAGTGG AGGACAACAT TTGAGGCACT TACATGGATN 240
 CTAGGGGACA TNTATGTGAN TGTTAGGCAN AAAGTGCTGC CTNCANGNCA NGCAAATACC 300
 30 NATTNAATAT N 311

SEQ ID NO:6299
 SEQUENCE LENGTH:115
 35 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07461
 SEQUENCE DESCRIPTION:
 40 GATCAAAAAA TAACTATAAG TATCCTCAGC CAAGTAGCCC ATGCCGCTGC TCTGCCTACG 60
 GNGTACTCAT CTTTATTCTT TTACTTTCTT AATAAACTTG CTTTCAATGT ACAA 115

SEQ ID NO:6300
 SEQUENCE LENGTH:310
 45 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07462
 SEQUENCE DESCRIPTION:
 50 GATCCTACTG CCTCGTCCTC TCAGAGTGCT GGGATTACAG NNGTGAGCCA CCACAGNAAG 60
 NCACAAATAG CGATTTTATC TACTACCACC AGAAATCTTC TGACATACTG TTTTACCGCA 120
 TGAACATTG TTTTCTTTAT AAATTCCTTA ACAAATCTCT GTTGATAGA ATACTGTTGG 180

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EP 0 679 716 A1

TTAAATATA TCAGCAGCTA ATAGCTCATT TAAATAGAT TCTGAAAGTT CAAGNATTTC 240
AGGTTGCCAG NCACCNNTAT ACTCTACANA ATCAGANANG GCTCATTCTT GNTTNCNTAC 300
ACAACAAANN 310

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SEQ ID NO:6301
SEQUENCE LENGTH:209
SEQUENCE TYPE:nucleic acid

10

TOPOLOGY:linear
CLONE:HUMGS07463
SEQUENCE DESCRIPTION:
GATCAGGGAT GTCCAATCTT TTGGCTTCCC TGAGCCACAT TGGAAGAAGA ATTGTCTTGG 60
GCCGCACATA AAATATGCTA AACTGACGA TAGCTGATGA GCTTAAAAA AAAAAANTTG 120
CANGAAAAAT CTCATGTTTT ANGAAGGTTT NCAGNITTGT GTTGGGCTGC ATTTAANGCT 180
GTNCTGGGCT GCNTTGGNCC CGNGGGCTN 209

15

SEQ ID NO:6302
SEQUENCE LENGTH:312
SEQUENCE TYPE:nucleic acid

20

TOPOLOGY:linear
CLONE:HUMGS07464
SEQUENCE DESCRIPTION:
GATCATAGCT CCTGGTAACT GTGGACTTGA TAGATTNAG GTACCTAGTT CAGAACTCCC 60
TAGTCACCAT CTCCAAGCCT GTCAACATCA CTGCATATTG GAGGAGATGA CAGTGGTAGG 120
ACCCAAGGAA GAGATGTGTG NCTGANTAGT CGTCACCATA TCTCCAAGCT TCCNGGCAAC 180
CAGTGGGAAA AGAAACATGC GAGNCTGTAG GAAGNGGGAA GCTCTTCCTT GGCANCTAGG 240
AGGNNTTAGC CATTCTCTTC CTTATGCAAN GATTGAGGAN TGCAACAATA TAAAGNACGT 300
GNAGTCCCNA NN 312

30

SEQ ID NO:6303
SEQUENCE LENGTH:147
SEQUENCE TYPE:nucleic acid

35

TOPOLOGY:linear
CLONE:HUMGS07465
SEQUENCE DESCRIPTION:
GATCCGCCCC CTCAGCCTC CCAAAGTGTG GGGATTACAG GCGTGAGCAC CGCGCCTGAA 60
NCTGAAGGTT ACTTTTCTTT TCAGTGGTTT GGGGCAGGGT GTTACACAGC TTAATAGATT 120
AAGAAGAATA AAATGCTGAA TGCTAAA 147

40

SEQ ID NO:6304
SEQUENCE LENGTH:294
SEQUENCE TYPE:nucleic acid

45

TOPOLOGY:linear
CLONE:HUMGS07466
SEQUENCE DESCRIPTION:
GATCATATTT CCTCAAAAAT AAGAGAAATA AGGTTTATAA GGAAACTTGC TGGGATTGTG 60

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EP 0 679 716 A1

5 GTTGTTTTGT TTTCTCAGCA GCACAAACAA AACCAGAATT TAGCCTTTAG GACTGCTGAG 120
 TAAGCCAAAT TAAATGACT ACTGCTTTGT NCATGGGTAA GCCATGTNCT TTTCAAAATA 180
 AGTGCCACTA AAANCCACAT AATGCTTTGG TTTCTATGTG GCTAATANNT ATTTNGTCCT 240
 ATAGTTTATC TTATTTGTNA CTGATTNCGN TCTCTTGNAT GCCTCATATT ANT 294

10 SEQ ID NO:6305
 SEQUENCE LENGTH:294
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07467
 SEQUENCE DESCRIPTION:
 15 GATCCATTCTG CCCAAGGGG ACAACGGGGT GTCAGGGGAG TNAGGGGTGG AGGTAGGGGC 60
 CAAAGAGGCT TACACGATAT CCCATACCTT TAATGCCTTT GGCCTTCCAT TCTNACTTCT 120
 CTNATGAGAT TATTGTCAAC CCTGCTTTCC CTGGTAGATA TTTGCCAGGC CCAATGCTTT 180
 AACCTTAAGC TGATATTTN CCTTTAGATG TCAATCTCGT TACCAGCAGC CTTTGACCC 240
 AACTNCAGNG NTCTATATT NCGTAGNGGN TTTTCNCCA TGTGCATGGA TNT 294

20 SEQ ID NO:6306
 SEQUENCE LENGTH:129
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 25 CLONE:HUMGS07468
 SEQUENCE DESCRIPTION:
 GATCCAGAG GCTGAGGGT GGGGAGAGGA AGCCATCATC TCATTACCTC TGTCACTGCA 60
 GGGGTGGCTN CTNCTTCCCT TGTGCACTTG GGTGCTGTG ATTGTAAATA AACGTGATTT 120
 30 CGTACCAA 129

35 SEQ ID NO:6307
 SEQUENCE LENGTH:193
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07469
 SEQUENCE DESCRIPTION:
 40 GATCTCTTTG TNATTAAAGA AGTGGCTGGA TTGGAACCTT TAATATGCTA ATNTGGAAAA 60
 TTAATTACCT TTATGAAGGT GGTATTATAC AAATAAGCAC ACTAACCCT CGGAAGTTGT 120
 TTTACCTACT TAAAAAGTTT TANTGGATTG CNCCTCTGTA ANCTATTCCT AANNTGTGTA 180
 TGANATATTT NAN 193

45 SEQ ID NO:6308
 SEQUENCE LENGTH:291
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07470
 50 SEQUENCE DESCRIPTION:
 GATCTTTCTT CCTCTCCAGC CCACAAGTGG CTCTAGTGAG ACGAGCATTT AAGCTGCAGG 60

55

EP 0 679 716 A1

5 TGGTGGCACT CGGGTCTCAG AGCCACCAGA CGTGCAGGTG GGACAGTGGT TCCAGCTCCG 120
GCTGCCTGTN AGCGTCCCTC CCAGGTGCTA GCCCTGGCAG GCACAGCCCT NCCCTCATGC 180
CAGCAAAGGA AATGCTCTTG ATGAGAGGCT CGCTTTAAAG AAGCCCAAAG CGTGTGCTTA 240
TCCAAGGGGT TCAGCTATTC CTGACTTCAC GGCTTGCATG TTTGATTTTG N 291

SEQ ID NO:6309
SEQUENCE LENGTH:97
10 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07471
SEQUENCE DESCRIPTION:
15 GATCATATGT ATTTNTATGT TCTGTAAAGN ATTTGACTTA CTAGTTCTCA ATAAAATTTT 60
ATTAGGACTA TAAAAAATAA AAAAAANTTT TAATAAA 97

SEQ ID NO:6310
SEQUENCE LENGTH:147
20 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07472
SEQUENCE DESCRIPTION:
25 GATCTTATGT ACATACCCAT TTTAGCTTTC CCATGCATAC TTAAGTGCAC TTGCTTTATC 60
TCCTTGGGCA TTCTTACTTA GGATTCAATA GAAACATGTA CAGGGTAAAC AATTTTTTAA 120
AAATAAAACT TCATGGAGTA TCTGAAA 147

SEQ ID NO:6311
30 SEQUENCE LENGTH:190
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07473
SEQUENCE DESCRIPTION:
35 GATCACATTT TGAAATGCCT AAAAGACTTT ATTGTTCTAA TTATCCAGAT GTACCTTTGT 60
AAAATAGCTC TTTTATGAAT TAGCTGATAA GGCTGTATGT TTCTGGANCA AATATTGGGN 120
CACCTAAAC CTTCCGGTTT CCGGGGGCCN GGGAAATNGG AATNAGGTT TCNAATNTTA 180
AATNAGGNTN 190

40 SEQ ID NO:6312
SEQUENCE LENGTH:65
SEQUENCE TYPE:nucleic acid
45 TOPOLOGY:linear
CLONE:HUMGS07474
SEQUENCE DESCRIPTION:
GATCTGGATT TTTGCCAATT CCTATGAAAA ATAATCCCCA GAAATAAACT ACTAAGGAAA 60
ATAAA 65

50 SEQ ID NO:6313

55

EP 0 679 716 A1

SEQUENCE LENGTH:79

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07475

SEQUENCE DESCRIPTION:

GATCCATTGG TGTTCGGTTT GGGGTGTTTT TTAAGTTTTT TCTTTTATAT CATCCAGAAA 60
TAAAGACACG TACACTAAA 79

SEQ ID NO:6314

SEQUENCE LENGTH:204

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07476

SEQUENCE DESCRIPTION:

GATCCAATAA CCCAGTTAGG TATTATAGAT TAGTATTTAA GTTTGCTGTA GATTGTGTGT 60
GTGTGTGCTA AGTAAAAGTN CCATGATTCA CAATTTTAGT ATTAACCCAT GTTGCAAAAG 120
CTGTTACTGG CCAACAGATT GTNATGATGT GTACCATATA ACACAAGCNT TANCINGGCA 180
TTANCGTTTG TNAAGCCANN TNTN 204

SEQ ID NO:6315

SEQUENCE LENGTH:204

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07477

SEQUENCE DESCRIPTION:

GATCTCATCT CTGAAAATAA AATACCCCGT TAAAATTCTG GCTTTTGTTT GTTAAGGTTA 60
TTGAGAAGGT AATAGAAAAA GATATGATAC TACTTTNCTC TCTGGATTT GTAAAANTAG 120
TGGAATTTTC ATAAGGATTT TGTATTTTCT ATTGCTGTAT AACATTATTA ATACAACTT 180
ATTGGCTTAA NANNCAAANN NNNN 204

SEQ ID NO:6316

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07478

SEQUENCE DESCRIPTION:

GATCACGAAG ATACATGTGT TTGACTGTTT AATTGAAAG TTTACATTTT TNATGCTTTG 60
TGTTCGGTGTG TAATTTTGTG ACTCTGGTG GCTAGTTTTT GTCAAATCTT TTTTGGAATA 120
TTGCTTAAAT GTNTTGATTT TATGATAGTG AAGCTTGAT TCAGTGTTTT GCCAATNAAT 180
ATTATATGCT TGTAATAANN GCAAAAGANA AGCTTAAA 218

SEQ ID NO:6317

SEQUENCE LENGTH:335

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

EP 0 679 716 A1

CLONE:HUMGS07479

SEQUENCE DESCRIPTION:

5 GATCCCAAGT GGAACCTTCA TGCCTTATTN ATTTCTAATG GGTAAGGGG TTTTNTTACC 60
AAGCATCCCT GACCTCCTGG AGACACCACC TGCTTTCCGG GCGGCACTGT GATGGGAGCT 120
GGTGGCGACT GAGTCCTTCT GTACGTGCAA CTGGGAACT TTTGTCCTTT GAGGCTAGGC 180
AGCTCCCTGC CCTCCGTGTG TGTCTGTTAT CTGGGGGAGA GGAGTGTGGG AAGGNNTTGG 240
GGGAAGAGCT CCAGCCTGTN ITGNTCCCAA AGTTCTNNAG TGGGAAGACC NGGGTNACCT 300
10 TTNAGGGTN TANGGTGNGG GGAANTTNTT TTTTN 335

SEQ ID NO:6318

SEQUENCE LENGTH:266

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS07480

SEQUENCE DESCRIPTION:

20 GATCTGCGTG TCAAAGTGT CCATTTGTTT ATGTAAAGTG ATATTAAAA AGATATAAAC 60
TATAACTGTC CGTTACTTTT GGCAAAAGAT ACAACCACAT AATGTATATA ATTCCTAGTT 120
TCCATATTTA TCCGCATGTA AAGGGCCGGT TTATCCATGT TACAGCTCTT CAATATTTAT 180
GGCTAGAAGA NCTCGTATGT ACACTTTAGT TTCCAGAACT GTTTGGTAAC CTTTCGTACC 240
TNATTAGAGG ATTCTNAAAT CTCAAA 266

25 SEQ ID NO:6319

SEQUENCE LENGTH:313

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30 CLONE:HUMGS07481

SEQUENCE DESCRIPTION:

35 GATCCACCCA NCTCGGCTTC CCAAAGTNCT GGGATTATAG GCGTGAGGCA CCGTGCCTTG 60
CCGATAAATG GATTNNAAGC TGAGTCTTTG AGGGAAGAGT AGGACCTGCA CTGAAACAAA 120
AAGACAATTT GTGGGGTTGG GNGAGGAAC CAGATGTAAA CAATGGAAAG NTTTTGGTGT 180
CACTTTGAGN NGGATTTTTT GGAAGGGTTT TGCAATGTCC ATTCTGTATC TTGGGTTANC 240
ACTAGTAAGT CAAATGGNGA ATAATTTGAG TGTCACNT TCCCTNCAGT TNGGAAAAAN 300
TTTTTANCNG TTN 313

40 SEQ ID NO:6320

SEQUENCE LENGTH:144

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

45 CLONE:HUMGS07483

SEQUENCE DESCRIPTION:

GATCTGTGCT TTTNCCCACT TTGCCCACT GTCTAAGGTG GCTTTNAACT GGAACCCAAG 60
TGCAAAATAA GGTGGTATT CGTCTCTGAA AAAAAAAAAA AAAAAAAAAA AAAAAANAA 120
AAAAAANA AAATNAACNA AANN 144

50 SEQ ID NO:6321

SEQUENCE LENGTH:332
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07484
 SEQUENCE DESCRIPTION:
 GATCCCTCCT CACTTGGCCT GCCACTTTGC ATGGTTTAT TCTTAACCTG GTCCCCCAG 60
 TGTNAAGTGT AGTGGCATCC ATTTCTAATG TATGCATTCA TCCAACAGAG TTATTTATTG 120
 GCTGGAGATG GAAATCACA CCACCTGACA GGCCTTCTGG GCCTCCAAAG CCCATCCTTG 180
 GGGTTCCCCC TCCCTGTGTG AAATGTATTA TCACCAGCAG NCACTGCCGG GCCTCCCTCC 240
 CGGGGGCACT GCCTGAGGGC GAGTGTGGGN NTAGCATTAG CTGCTTNTN CNNNCCTGGN 300
 ACCNACTGTG GCCTGGAATN GNATAGTGGT NN 332

SEQ ID NO:6322
 SEQUENCE LENGTH:376
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07485
 SEQUENCE DESCRIPTION:
 GATCTAATTA ATGTGAAGGA CTNGCCAGTC TGGGAAACCG CCTGCCACGT GGAAGAGCCA 60
 AACCCGACTC TNTGCTGCCA CATGCCGTTT CCATGCCCGG CTGCTGGGCA CCTGGNAGAG 120
 CTTCCAGAAT CCTCGCAGAC AGCCCAGAGC CTGCCGCTAC CCTCGGCTG CCCACCACCA 180
 AGCAAGCAGC AAGCAAGATG GGGTTCTCAT CAGTTCTTCC TTCCACAAAT GTAGGACCTT 240
 TCCTTTTACC TTTNCAATGG GATAAAATAG TTCAGAGTTC ATTAGTCATA TTTCATTGGN 300
 CACAAGGAAT TCAANGGTTT TTTNANCAAT TTANCANTTC ACCCGTCTTA TGTNGTTTAA 360
 NANTNANANC NANTCN 376

SEQ ID NO:6323
 SEQUENCE LENGTH:109
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07486
 SEQUENCE DESCRIPTION:
 GATCACAGAC ACCCAGTNCG TGGNCCCTGT CTTACCCCCA GCNAGCATCA TGTNAGTGGG 60
 CCTCGTTCCC CCCGGAGAAT CCCAGCGGGG CCTCANAGAT GCATCTGGN 109

SEQ ID NO:6324
 SEQUENCE LENGTH:156
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07487
 SEQUENCE DESCRIPTION:
 GATCTTGGCT GCTTTTAACT AGAAGGTTGC TTTNATNAGC ATATTTATAC TGCTGAAGGA 60
 TGAGTGTNAA TTAAATTAA CTTTGCCGTT TTGTAGAGAA AACTATTAC AAGATAAATN 120
 CCAAGTCTTT NCACCTGTCA GGCATGCATA TNTNAN 156

SEQ ID NO:6325

SEQUENCE LENGTH:229

SEQUENCE TYPE:nucleic acid

5 TOPOLOGY:linear

CLONE:HUMGS07488

SEQUENCE DESCRIPTION:

10 GATCCCACTG AAGGGTTTGG TGTGTTTAGG CCTCATTCTT TTGTCTTTT CCTACTCCGT 60
TCCTGGCATT TCCTGATTTC NAGTGTATAC TCTGTAGTCT CAGTTCGTGT TTGATTCCAT 120
TCCATGGAAA TAAAAAGTAT GTTGTACATA CTGCCGAAGA ATTGTCTTGC AAGTAAAGGC 180
TTCCCCCTTT ACTATAAGAC TATAANTAAA ACCTTATTN ATCCTTAAA 229

SEQ ID NO:6326

15 SEQUENCE LENGTH:190

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07489

SEQUENCE DESCRIPTION:

20 GATCTTACAC ATTCTGTGTA TAAAGACCTT AACTCCACAG GACGGACATT TTAGAGTTTA 60
AATTATTAAG GCTATCATTG TTTTAGTAAT GTCATATTG CAACTTTTT NAGTTTTGGC 120
CTTTAATTTA AAANGCCTAA TTTTAANGTG CTGCCTGTNA GTAACCTTG ANTAANANCA 180
ANTTATNACN 190

SEQ ID NO:6327

SEQUENCE LENGTH:355

SEQUENCE TYPE:nucleic acid

30 TOPOLOGY:linear

CLONE:HUMGS07490

SEQUENCE DESCRIPTION:

35 GATCTCAGCT CTTTNGGTGA CTGCATATGC AGTGGTGACC CAGCACAGTT TCCATCAATC 60
TCGTCAAAAG ACTTGAGGTT GTTGGGCACA GTATTCAGA TGACCACAGT TAAAAAGCTG 120
GGTATACACA ATTAACANCC AANGTGATAT GCATTATAC CTTTCCCTTT ATGNCCAATT 180
TCTTTATAAA TATGGCTCAT CTGCTCATAA CTGTTAGNCC CACCCAACTG TCATTAGTAA 240
CCTGAGTGTT TATGCTTGCA AACTGTATG TTGTTATTGT CTGATTGAT NATATTCNGT 300
GNTGTTTAGN GAATGCNGTN GTGTTNANT GNATCACAAA NAATTNCCCC ATTNN 355

SEQ ID NO:6328

SEQUENCE LENGTH:298

SEQUENCE TYPE:nucleic acid

45 TOPOLOGY:linear

CLONE:HUMGS07491

SEQUENCE DESCRIPTION:

50 GATCATTGTA ATCTCAGTCT TCAGCCTGCA CTGATTGTA GCCTGCACTG TCTTACTGAT 60
TTACAAACTG AAATCACTGA GAAATGTCTT TAGTTCAGTG AGAAGAAACC AGAACAATTG 120
TTCCTAGTGT TGTGTTGTTT TTTTAAAGCA AATTACTTAC TGTATTTTNA TGGCAGGNGG 180
GNGAAAAAGT GTTACAACGG TTTCTAATGA AGTCCGGTAT TTANNTGGTA AATGACTAAT 240

GTGTTTAGTA GTGCCAAANT AAACCATTAN NTGNTTGTCC TTTGCCAAAN ANANNANN 298

5 SEQ ID NO:6329
SEQUENCE LENGTH:225
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07492
10 SEQUENCE DESCRIPTION:
GATCACAAAG AAAAAGCATT TTTAAAAAGT TGGCAAACGC TGAACGCAC TGTGGTATGA 60
GGCGCATTGC ATTTCCATAG CACTGAAAGTA CCAGTTTCCA TTCCTGGGCT GNGATTGTTT 120
TTCCCGTGGT TGTATTGTTT TGATTTAACG ACCACCAGNG TAACTGNITT TTNTTGTTT 180
15 GTTNTCTGGT GGGGTNNCCA CCAATTAATA CTNNTANAAN CCCGN 225

SEQ ID NO:6330
SEQUENCE LENGTH:229
SEQUENCE TYPE:nucleic acid
20 TOPOLOGY:linear
CLONE:HUMGS07493
SEQUENCE DESCRIPTION:
GATCGACTTC GATAAATAC TTTGCCTAA TCAAAATTAG AGTGTGTTG TTGTCTGTGT 60
25 AAAATAGAAT TAATGTATCT NGCTAGTAAG GGCACGTAGA GCATTAGAG TTGTCTTTCA 120
GCATTCAATC AGGCTGAGCT GAATGTAGTG ATGTTTACAT TGTTTACATT CTTTGTACTG 180
TCTTCTGCT CAGACTCTAC TGCTTTAAT AAAANTTNAT TTTGTAAA 229

SEQ ID NO:6331
30 SEQUENCE LENGTH:345
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07494
SEQUENCE DESCRIPTION:
35 GATCTAAAGA CCCGATAGGT GCAGAACCCA TCTGGACACG GAGACCAGGA ATGGAGTTCC 60
ATGGAGGCCT GGCTGGCACT GCACCCGGGC ATGAGGACAC ATCCAGTAAG AAGACCTGCC 120
TCAAGAGGTG CACTGCGGTG ACCAGTGGAG GTNACTGGTT GGAGCCTGGA ATTGGAAGCA 180
GATTCCAAGC TCTGGTGGAC AAACCTCTCA GGCCTGGTGG GATTACAGC TGGGGCAGNC 240
40 CTCATCCTGG CTGCNTGGCC ACAGNCCCN GCTNTTNNCC ACTTGGTGGT AGGGCCGATG 300
CCTTNTTTGG ANGAGNTGGG NTTNTTTTGG TCNCGACTGN GTANN 345

SEQ ID NO:6332
45 SEQUENCE LENGTH:219
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07495
SEQUENCE DESCRIPTION:
50 GATCACAAAG AAAANGCATT TTTAAAAAGT TGGCAAACGC TGAACGCAC TGTGGTATGA 60
AGCGCATTGC ATTTCCATAG CACTCNAGTA CCAGTTTCCA TTCCTGGGCT GAGNTTGTTT 120

55

TTCCCGTGGT TGNATTGTNC TGATTTACAG TACNCCAGAG TAACTGNTTT TTTTTGT TT 180
GTTTTCTTGT GGAGTTAACA CCANNTAAAA NTGTAAAN 219

5

SEQ ID NO:6333

SEQUENCE LENGTH:60

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10

CLONE:HUMGS07496

SEQUENCE DESCRIPTION:

GATCTATTTC TCAGCTTTCA CTTATGTGAG CCAATAAATT CCTTTTTTGT TGAAGGCAAA 60

15

SEQ ID NO:6334

SEQUENCE LENGTH:154

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07497

20

SEQUENCE DESCRIPTION:

GATCTACCCC CCCATCAACG TGCCCCCTCG ACTCCCGGTG CTGCGGAAGA ACTGAAGGTT 60

GCNATGCCCTT ACTCTGACGG GAGCATCTGT ATTTTAATGT TAAAAGCCCA CAAAATAAAA 120

ATAAAAAGTA ACTGAGATGA ATTTAATAAA CAAA 154

25

SEQ ID NO:6335

SEQUENCE LENGTH:91

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30

CLONE:HUMGS07498

SEQUENCE DESCRIPTION:

GATCTATGCT GTATGCACAG ATTGCATAAT GGCTTTTTTN CTTAACATTA TGTGATAAGC 60

ATTTNCCTGA ATAANCTTAT TTTAAAATAA A 91

35

SEQ ID NO:6336

SEQUENCE LENGTH:181

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40

CLONE:HUMGS07499

SEQUENCE DESCRIPTION:

GATCAGGTGT GGCCAATNAA ATTNAAGAGG AAGTCTACCT GGGNTTCTGG GAAAGCTTTT 60

CCAATAAAAG ACACAGGCAT GGCTAACACC TCCCTGGGCC TCTTCTTCT ACCTTGATTG 120

45

AGGGTGTGAT GCCTGGAGCC ACAGCAGCCA CTTTGNNNNC ATGACAAAAA GGCCAAGNGN 180

N 181

SEQ ID NO:6337

SEQUENCE LENGTH:77

50

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

55

EP 0 679 716 A1

CLONE:HUMGS07500

SEQUENCE DESCRIPTION:

GATCACCAA ACCTGATGTT TTAAATNTGC TTTCTTTTGG AAATTTATGT TTTCAAATAA 60
AATCTCCCTA AAGCAAA 77

SEQ ID NO:6338

SEQUENCE LENGTH:265

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07501

SEQUENCE DESCRIPTION:

GATCCTATGA GTGTAGTTAA TGACTGTTNG TAAGTCAGTA GAGTAAATN CTGTGTCCAC 60
GGGGTGTAC AGCCTACCA TACCCTGTTG AGGTGTGAAA TGCCCCGTCA GAAATTAAAT 120
ACAAACTTAA ATGTGCCTAT TGGTGTCTAA NCTTCATACA ATGTAAGGNC AGATTCCTTT 180
TNGGNNACT GGGTGTCTGC GCCAGGTTTG NTAGTTAGAC TTAAANCTT GANATTCACT 240
TTTTGGGGGG NGGGNTATAC TGANN 265

SEQ ID NO:6339

SEQUENCE LENGTH:161

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07502

SEQUENCE DESCRIPTION:

GATCTATTGG AAAACAACAT GGAATGGAAT TCTGGAAATN ATTATTCATT GAAGAATGCA 60
GTGGCCAAGA AATATCAAA TGTAGATTGT NAACGCTTGA GAATCATGGC TATGGTTTCT 120
NATGTCCTGG TAACANGCTG TTATCTTTNN NGACATTTN N 161

SEQ ID NO:6340

SEQUENCE LENGTH:272

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07503

SEQUENCE DESCRIPTION:

GATCTAGTTA TAAATACAT GAAAAGGCTG ATGCAGCAAT CGGTGGAATC GGTTCGGAAT 60
ATGGCATTG ANTTTATTCT TGACAATGTC CAGGTGGTTT TANAACAAAC TTATGGAAGC 120
ACATTAAAAG TTACATAANT ATTACCAGAG AGCCTGATGC TCTCTGATAG CTGTGCCATA 180
AGTNCTTGTG AGGTATTNC AAAGTGCATG ATAGTAATGC TCGGNGTTTT TATAATTNNN 240
NNTTCCTTTT AAAGCAAAGT TTTGTACAT NN 272

SEQ ID NO:6341

SEQUENCE LENGTH:345

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07504

SEQUENCE DESCRIPTION:

EP 0 679 716 A1

5 GATCAGTGTG GAAAAGCCTT CANTCAGAAA GGAAGCTTAA TTNTNCACAT CAGAGTCCAC 60
ACAGGCCTGA AGCCCTATGC CTGTNCCCAG TGCAGGAAGA GTTCCACAC CAGGGGGAAT 120
TGTATTCTGC ATGGCAAAAT CCACACAGGA GAGACACCCT ATCTNTNCGG CCAGTNTGGA 180
AAAAGCTTCA CCCAGAGAGG GAGTCTGGCT GTGCACCAGC GAAGTCTTCA CAGAGGCTCA 240
CCCTTTGACC ACTTTCCTGA AGAGAAGTTC TCTTTATGAA TTAAGGAGTA CAAAATCCTC 300
TGAGNTTGAN GCAACCCTAT CCAAGTTTCT ANTGGGANTG GTTGN 345

10 SEQ ID NO:6342
SEQUENCE LENGTH:212
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07505
15 SEQUENCE DESCRIPTION:
GATCTGTCTG CCCATCTGGC CCAGGGGGTC CGAGAAGGGA AGCCTTGGGC AAGAGGNGAC 60
CAGTTGCAAT ACTGTACTTC CTGGTCAGTG GCCAGAGGAT GCGTGCAATA GCAGAGGCCA 120
GGTNACCCCT TCAGCCTTGG CCTCTGCCNC TCCATTGGCC CTCCCTNCCT GNTNCTNCNT 180
20 GGTGTNGGTC AGTCCTTTTC TAAAGNTGTC CN 212

25 SEQ ID NO:6343
SEQUENCE LENGTH:316
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07506
SEQUENCE DESCRIPTION:
GATCTTCGTA TAATTGGCCA CTAATGTGAG AGTTCACTAC TAGGCAGAAA CTATTATGGA 60
30 CAGTNAAATA ATGACTTTAA TCTCACCACG TGAGTTTNAT GCAGTCTTTC CTGTCTAGCC 120
CTTGCTCTN CTGCCCATG TNATTGCGGT GCAGTAGTTT CTGTNGTATA ATAGTGTTGA 180
CAGCAGCTCA GAAAAGGAGG GAATGCTACT GATAATTTGT AGATAATNNN NTTTANGACT 240
TAGGGGAACC ATTGACCTTT GANATTTTNA TTAGAAAAATN ATTTGTNCAG AATCAGACTC 300
35 CATTATTNC CATATN 316

40 SEQ ID NO:6344
SEQUENCE LENGTH:184
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07507
SEQUENCE DESCRIPTION:
GATCAAAAGG AATGATGTAT TTTTAACGTG TTGGCCAAAG TCACTGGATA AAATGAGAAT 60
45 TGTATATTN TAATTCATTT TGCAAATNCA GAAAGTTGGT CCAGATATAT GTCACAGANC 120
TTTNCACTTG TATACTACTC TTACAATGGA AAANNNTCCC GAAANCTGTA TACTTCTGAT 180
TANN 184

50 SEQ ID NO:6345
SEQUENCE LENGTH:361
SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear

CLONE:HUMGS07508

SEQUENCE DESCRIPTION:

5 GATCAGACCA TGCAGGTAAG GTGAACCAGC TGCACGGACC AGGTTCCCGC AAAACATTGC 60
 CAGCTAGTGA GGCATAATTT GCTCAAAGTA TAGAAACAGC CCACCTGTGC CCACTTTGAC 120
 CATTGGTGAG GATAGATATA AAATCACTTC TTCCAACGAA GCCTAGGTGA AAATCTATTT 180
 ATAAATGGAC CACAACCTCG GGGTGTGCTT TTTGTGCTGT GACTTCCTAA TTATTGCTAA 240
 10 AGAACTACTG TTTAGTTGGT AATGGTGTA AATTACATTC AGCTCCTTCT TGTCATATAA 300
 ANAGGAATTT GGNGGGTGTC GGTTTAAANA TTTTATTNCA CCTGTACCAT TTNGTCACTC 360
 N 361

SEQ ID NO:6346

15 SEQUENCE LENGTH:266

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07509

SEQUENCE DESCRIPTION:

20 GATCTGTTGT TATACCAATT GAATTAATTG AGTTNNTTGT TGGACATTTG GGTGGTTNC 60
 AAGTCTTTC TATTGTGAAT AGTCAATGGC AGTATTTTNA ATGTTGGTCT ATTATTGTAC 120
 TAAATAGTTG TTTATATTGA GCTTGGGAAA GCTTTCGTGT CCAATAGAAA TAGCATATTA 180
 AAATAATGC CACTGTATAT NAATGANAGT GTTGATTATA TACCCTAGAN ACTTAANCCT 240
 25 TAAGGNAGTT ATGNTNNAAT TNNCTN 266

SEQ ID NO:6347

SEQUENCE LENGTH:355

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07510

SEQUENCE DESCRIPTION:

35 GATCAACTCC AGTTTCCAAT GTCTATGTGT CTATGTGTGT ATGTNCCATA CATATGTATT 60
 CACATGAAGA CCGGCATGGC CAAGTNCCTGC TGGAGGAGCA CTCAAGTGTG ACGAGCAGGG 120
 CCACTGGACC CTGCAGGGCT GTGGTGTATA TAGTGCAGCT TTGGAGGTGG AACTCTATTT 180
 NAACACTTTT CTATGGAGCC TTCCGAGTCC CAGGTTTNA CTTGAGGCTG TCTGTCTGGA 240
 TGGCGGTTT NAGACCTCCA TTAACATCCC TACCCAGCAT TCTGTACTTC GGGGGGNCCT 300
 40 CTATCTTGTN ATAAACTTN TTACCAAGTG GAACATCGGT TACCCACCTT TTGTN 355

SEQ ID NO:6348

SEQUENCE LENGTH:358

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07511

SEQUENCE DESCRIPTION:

50 GATCGTCCTG CCTTTGTAAG GCAGATTGG AGGGGAGGCC CAACAGCAAA GATGGAGAGG 60
 AAAAAGGGAG TGGAGCTTGT GGAACAGGAA GCCCCCAGG GTCTGTCCAG GGCTGCTCAG 120
 CTCTTNAGGA TGTGTGGAT GGTGAAGTGG TGATGGTGTC CTGGAGCAGC CCAGCACCTC 180

55

EP 0 679 716 A1

5 CACTGGGCCC AGAAGGTCTT GACTTCGGAC ACTTACCCCT GTTTCACAAG TGTTTATAAA 240
GCTGTTTTTN CTTTNGTTTT TCTCCTAAAT AATCCTTACT TGGTAGTTAT NAATCCTTCT 300
TTGGGGGAGG GACAGGGGCT TTAANCCCTG GAGGAAAATT AATTTNNAT TAANGGAN 358

10 SEQ ID NO:6349
SEQUENCE LENGTH:106
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07512
SEQUENCE DESCRIPTION:
GATCATGGAA GCTCCGTGCC CCTTCTCCCA TTCCTTGCCC TAAGTATCGC CTCCATCTGG 60
15 TTGTTTGCT GTATCCTTA TTAATAAACA AGTAAATNTA AGTAAA 106

20 SEQ ID NO:6350
SEQUENCE LENGTH:135
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07513
SEQUENCE DESCRIPTION:
GATCAGTGCC AGAAGTCATT GTATTCAAAG AAGAATAAGC AAGAAAGAAA AGAAGGAAGG 60
25 AAGAGAGTA GACAGATACA AGATGAAATC CTGTCAAAAA ATGGAAGGAA ANCCAGAAAN 120
TGAGAGTNNN CCANN 135

30 SEQ ID NO:6351
SEQUENCE LENGTH:156
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07514
SEQUENCE DESCRIPTION:
GATCAGGAAC ATGGCAAGGA ACACCACACC ACTGCTTTTN AGCATTGTAC TGGAAGTNCT 60
35 ATATAATGCA GTGTTAAAAA AAAAAGAAAT AAAATGCACA TAGATTGAA AGGNTGAAAT 120
ACAACTTTNT NCACAAGTAA CATGATTGTN TTTNTN 156

40 SEQ ID NO:6352
SEQUENCE LENGTH:134
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07515
SEQUENCE DESCRIPTION:
45 GATCAAAAAG AACTATGAG TAACAAGCTA TAACATAGTT CACCACAATG GGACCCCCC 60
CCCTTTTCCT NACCTACAG TTAGTAATAT TNCAATTAAA NTANCTATAT TCTNCTATAT 120
TTNCCTGTT AAAN 134

50 SEQ ID NO:6353
SEQUENCE LENGTH:107

55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

5 CLONE:HUMGS07516

SEQUENCE DESCRIPTION:

GATCCACATA TCTCTAACAC CATTAATATG AATCATTGGA AATATTTTAC TTATTAACAA 60
AGTCTCTTGT GTTAAGCTAC AGATAAAGCT TTTGTGGTAG TGTCAAA 107

10 SEQ ID NO:6354

SEQUENCE LENGTH:350

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15 CLONE:HUMGS07517

SEQUENCE DESCRIPTION:

GATCCAGAGA CATGTGGCAG CAGGCATGGC TTCCCCTTGG CCTCTCTGTA CACTGCCCCA 60
GGACTGTCAT TTTGGCATCT GCAAAGGAAT CACTTTAGAA AGCCAGCACC TGGTTGATGT 120
GTATTCATAC TGACATTAGA TTGATGTGCA CTGCAGGGGN AANNGCGGTA GCTGNCACAG 180
20 NAAAAGGATG TTTTGATAGG AATAATTTTC TAGTATGTCT TGAAACATGT TCATCTGGAA 240
GTATTTTCCT CCAAAGTAAT GTAGCATGAT TTNCAAGGA TTGTTAACAT GCCTGGGATT 300
GGGAAAGNTA GGCCTAANGT TGTGCCAAAC TATATCAATA AATTCCTTN 350

25 SEQ ID NO:6355

SEQUENCE LENGTH:137

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30 CLONE:HUMGS07518

SEQUENCE DESCRIPTION:

GATCCCACTT GCATGCACCC AGAATTTTAT ATTCCCAGG AATATAGCAG AGGAATATTC 60
TGATATCATA TTTATCTTTC ACCATCTCAA AAATTACAGT TTTAAAACT CAAATAAAAT 120
TCATCACTAT AACCAAA 137

35 SEQ ID NO:6356

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40 CLONE:HUMGS07520

SEQUENCE DESCRIPTION:

GATCCAACCC TTGCTAGGTA TCATAGTTTA GGCCCATTTA CCTTCCCCTG TACTGGCAGT 60
TCAGCCGCTT ACATGCACTC ACCCTGTTTG TGGCTATTTT AAATTCATAT TATTAATAAA 120
45 CAAAAAAAAC CCAAA 135

SEQ ID NO:6357

SEQUENCE LENGTH:69

SEQUENCE TYPE:nucleic acid

50 TOPOLOGY:linear

CLONE:HUMGS07521

55

SEQUENCE DESCRIPTION:

GATCCTGTCT CAAAAAAAC ATAACCGACA TCCAGAAGTG AAATAAATTA GCCAGTGTCA 60
 CAAAGTAAA 69

SEQ ID NO:6358

SEQUENCE LENGTH:200

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07522

SEQUENCE DESCRIPTION:

GATCTTAAAA NTACAAAATG TAGACAATTA ATATTCAGGT GCTTACTTTT GAGCCAATAT 60
 GTAGCAGAGA AAAACTAATT NNTCTGTGGC AGTATTTTNA TTTTNGGCAT TTCCCAGGAA 120
 TTAAGTGAAG ACTAAACTC ATATGTGANG TGTAATGATA CTANGGNAAG AGTCAGTAAA 180
 ATTNCCATTT GGCTACCAAA 200

SEQ ID NO:6359

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07523

SEQUENCE DESCRIPTION:

GATCTTGTA AATATATAAT NTAAATAANA TTAAANCTGT AATTCCTTTN CCCTCCAAAG 60
 GCTTTTNTGT ACATGGCGCT GCATTTGGCT ATTCCTTTG GAAATAAATA ATGTN 115

SEQ ID NO:6360

SEQUENCE LENGTH:319

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07524

SEQUENCE DESCRIPTION:

GATCTTCCCA CCATCACAAA TGAATTTAAA GATGAAAAGA AACTCAGTTG CTCATACAAC 60
 TGCATTTTTT CTGTCTATTA TGGGAAACAT CAGACGTTCT GAGTAAGATA TATCTCATGG 120
 CATTAGTTAA TATAACTNAT ATTGTTTAA TCAATGGTATT ACATGCAATT NATATCAGAT 180
 AAAAGCAGAA CACATTTTTG TNCTGCCTCT CTAAATGCT GAATGTAGCT GTNATGTATA 240
 ANTCCATTTA GTTTTATGTN CTAAAGGCT ATTTGTGCAC TCCAGNTTNN CAGTAAANTA 300
 GNATTCCTAG TAAANCNNN 319

SEQ ID NO:6361

SEQUENCE LENGTH:141

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07525

SEQUENCE DESCRIPTION:

GATCCTAATT TNNTACGAA TCCCGATGGA ACCCTGTGCT GTTNANACAT CAGTGTGTAA 60
 AACTCTCTGT GTCCCTGTTG GGCTGTCCAG ACAGTCTGGA CTCTGTGAAA TTAAANATT 120

AATTAAAGGA AACAAACCAA A

141

SEQ ID NO:6362

SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07526

SEQUENCE DESCRIPTION:

GATCTTTTGC TTAGACGTTA ACTTGATGCA TCATTGGAAA GNTGTTTCTC TCATCTCTGT 60
 CCTAAGGCTT GATAAAGTCA TTAATTTGT NTTCTTTTGA CTAAA 105

SEQ ID NO:6363

SEQUENCE LENGTH:392

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07527

SEQUENCE DESCRIPTION:

GATCTCAGGC CAGCCGTTTG TNCTCCTAGC AGGGTTGCTG TGCTGGCCAC ACGGAGAGGC 60
 CCTAGAGAGC CTCATGGATT GTAACATAAG AAGAAACGGT TCCTTTTGT TTTTAAAAA 120
 ATNATTTTAA AATACCGTTT TTAACACCGT TCTCTCGGTA CTTTTTTTAA GCTAAGTCAG 180
 CATTGTCTTC CAGTGTTAAA GGCATCCCTC ACCTCTGCAT TGACCTTACG NATCCATGCC 240
 AAGGAATGGG ATTTCCATCC CTGNGGCCAG TCAGTTAGGG TGTCAATTGT NCCTATTGA 300
 NTTTTAATG NAATCTGATG NGGTGAGNTC AGGTTTANAA NTCTTCAAN GNCCGGTTNA 360
 TTGTACCAGG NNTGNTATGG ATTAATCCNT GN 392

SEQ ID NO:6364

SEQUENCE LENGTH:205

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07528

SEQUENCE DESCRIPTION:

GATCTCCATT CCTTGGGCTC CGCGTCCGAN TTCATGGTGC GCCGCTGTGC TGGGAGCTGC 60
 AGTGGGAATN TNTGGGACAC CTTGACCAAA GGGGAGCTTT GTNTCGTGTG TTTTGAAAAA 120
 GGCTTAATGA AGAGAATGTT GTTCATTCTT AGTAGTATAG TTTGCAATTC TTAATGGCAA 180
 ATAATAAGTT TCAGTAGAAA ACAA 205

SEQ ID NO:6365

SEQUENCE LENGTH:343

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07529

SEQUENCE DESCRIPTION:

GATCCTTTTC TACCCACTTT CCTATGGAGG ATTCCAAGTN ACCACTTCTC TCACCGGCTT 60
 CTACCAAGGT CCAGGACTAA GGCCTTTTTC TCCATAGCCT CAACATTTTG GNAATCTTCC 120
 CTTAATCACC CTTGCTCCTC CTGGGTGCCT GGAAGATGGA CTGGCAGAGA CCTCTTTGTT 180

EP 0 679 716 A1

GCGTTTTGTG CTTTGATGCC AGGAATGCCG CCTAGTTTAT GTCCCCGGTG GGGCACACAG 240
 CGGGGGGCGC CAGGTTTTCC TTGTNCCNCA GCTGCTCTGC CCNTTNCNN TTATTNCCTG 300
 ACTTCAGGNC TTGAAACNNT TCCNGTGGTG TAAATAAAAA ANN 343

SEQ ID NO:6366
 SEQUENCE LENGTH:332
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07530

SEQUENCE DESCRIPTION:
 GATCTGTACT TTGAAAACAC ATTGAGTCCC TTTAACCAGG AAGAACTCTT CTGGGCGACC 60
 GTCCACATGT TCCTTTCCT TCCTAATGAC GTGAAGTCTG AACTCTACAG AGCCTCTGTA 120
 CCTTCTCTTT AAAGGCAGCT CTGCTCACCA GGAATTGGCT ATAATNCTTT CCAACTCTCT 180
 CATCATTTTA ATAGCTATCA GCAAATGTAG AGGTGTAGGG GATTTTGTA CATCTGATGT 240
 ATGTAAAAAG ANATATTCAA GTTGGAAGGC AGNCTAGAAC TGNCTGNGA GATGTTTGAT 300
 GTACACATTA AANNTAAGGA ATTTTACATA AA 332

SEQ ID NO:6367
 SEQUENCE LENGTH:258
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07531

SEQUENCE DESCRIPTION:
 GATCAAGAAT GGCAAGAAAA TCACAGCCTT TGTACCCAAT GACGGTTGCT TGANCTTTAT 60
 TGAGGAAAAT NATGAAGTNC TGGTTGCTGG ATTTGGTCGC AAAGGTCATG CTGTTGGTGA 120
 TATTCTGGA GTCCGCTTTA AGGTTGTCAA AGTAGCCAAT GTTCTCTTT TGGGCCTATA 180
 CAAAGGCAAG ANGGNAAGGC CNAGNTCACC ATCCCTAAA TTTTAAAAG NAGTTTCACA 240
 AAGNTNTGCA TATTTNNN 258

SEQ ID NO:6368
 SEQUENCE LENGTH:148
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07532

SEQUENCE DESCRIPTION:
 GATCTGTACA TTATTGCATG TGGCAGTAGT GTATTNCAT TTTGCATACT ATTCCATTTT 60
 AAGAATATAT TGCTGTTTAT CCTATTGATG GATATTTGTA TTTNTNATAC TTTTGTGTA 120
 TAATAAAAAT ACTGCTGTAA ATATTAAA 148

SEQ ID NO:6369
 SEQUENCE LENGTH:344
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07533
 SEQUENCE DESCRIPTION:

EP 0 679 716 A1

GATCTGATTC AAAGATAACC ATTACCCATC TTTCCAAGGC CCATCTAAGT AGTACAGGTG 60
 TTTTGTCTTT TAAAAATTGAC AGTCCTCTTT GCATTAAAGTC TGTAGGGGGG GAATACAATA 120
 TAAATATTCT NCTGTGTAAA CGTAAGAATG TGCTGTAATC TCCAGTTCCT TTGGATACCT 180
 CAGAATTCTA TTTATTGTAT ACACTTATAC TGTTTATNCA ATGTTTGGG TCTTACTCTT 240
 TTTGACGTAT TCTCATCAGT CTTCACTCTA GTTGCAAGC NCTGAAGTTA TTGATTACGT 300
 CTAATGTGCA ATNNGGCTTC TATTAANTGC TATTTNATGG TTCN 344

SEQ ID NO:6370
 SEQUENCE LENGTH:292
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07534

SEQUENCE DESCRIPTION:
 GATCTNTGTC ACACCCAAGC TGGTGGAGGA GCACCTCAAA AGTGCCANT ATANGAAACC 60
 ACCCATCACA GTGGACTCCG TCTGCCTCAA GTGGGCACCC CCCAAGCACA AGCANGTCAA 120
 GCTCTCCAAA GAAGTGAGCA GCCTGGCCCC TGCTGTCGGA CCTGAGCCTC CTGGCTNNGG 180
 GNCTGTAAAT ATGTATAGAC CTGTTTGTG ATTTTTTTAA TAAAGTCAGT TCTGGTGGCC 240
 CTGNGACTTT GGNAGGGNAA GGGGGAGGCC ANAAANANTA AANGGGGGGA AN 292

SEQ ID NO:6371
 SEQUENCE LENGTH:139
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07535

SEQUENCE DESCRIPTION:
 GATCCACCTG CCTTGGCCTC CCAGAGTGCT GGGATTACAG TCGTGANACC GCACCTGGCC 60
 AATTTTAATA TTTTAACTGA AGATGTTTCA TATAATATTC AGCAATATAA AAATTACTAA 120
 TGACTTTTTT GGTAAAGAAA 139

SEQ ID NO:6372
 SEQUENCE LENGTH:105
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07536

SEQUENCE DESCRIPTION:
 GATCCTAACC GNAGGCCCAT CAATTGCAAC ATAGAGATAC ACATGGAAAG AGGGTTTAAC 60
 AGACCCTCTC TNGGACACAN CTGTTTCTCC TTTGAGCANT ANTTN 105

SEQ ID NO:6373
 SEQUENCE LENGTH:151
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07537

SEQUENCE DESCRIPTION:
 GATCCAGACC AGCGTCTGGC CCAAGCCATT CANAGGTGGG GTCTGGGGNC TGGGGGTTTT 60

EP 0 679 716 A1

GTNTCGTGAC ACTTTGTCTC AAGGAGATTC CACATAGGGA TTTNAATTAG GCTTTCTNCT 120
TGCNAAGGCC TGTGGCATCT AANCCTGGCT N 151

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SEQ ID NO:6374
SEQUENCE LENGTH:288
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS07538

SEQUENCE DESCRIPTION:

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GATCTNAGGC AGATAAGAA ACTTCAACTT ATTTNAGAGA GGAGGTAGGG GATGGGGAGG 60
TCACAGAGAA CTCTGGGTTT CTNCAGTTTA CTATGCCACA GCACCATATT TCCGGGTATG 120
AGTTCTGAGC CCCACAATGG CCATAAGCAC TTAACCACAG ACCTAGTGAC GTATGTATAA 180
NATATACACT AGATTCCAAA GNCTTAGTAT ACAAAGACC ATAAATATC TTATTTGTAA 240
TTGTTAANA CTGATTACAT GTTAANNTGN TAATNTTTN NNTATANN 288

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SEQ ID NO:6375
SEQUENCE LENGTH:319
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07539

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SEQUENCE DESCRIPTION:

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GATCCTCTAC CCCCGGAATG AGGACACACT TCAGGACCCA GCCCCACTGG AGTNTGGCCA 60
AGNATTCTCC CAGCAGGAAA ATGGCCATTN CATGGACACC AATGANTGCN TCCAGTTCCTC 120
ATTCGNTGTC CCTCGAGACA AGCCCGTATG TNTCAACACC TATGGAAGCT ACAGGTGCCG 180
GACCAACAAG AAGTGCAGTC GGGGCTACGA GCCCAACGAG GNTGGCACAG CCTGCNTGGC 240
TCAAGTGCC TTTTAGGTG GGTATTCTTC AGCCGTCTCT AGAATCTTTN AGCCTCTTTN 300
TNGGGCCTCA NATCTTTGN 319

35

SEQ ID NO:6376
SEQUENCE LENGTH:166
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07540

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SEQUENCE DESCRIPTION:

GATCTCTGTA TGNTCTGTGT GTTCTGTGT CCTGGAATTG GATGCGTGGG ACTCGTTCTG 60
TCCGCGGAGT GCACTCTTTT TTNCAGTGTG GCCCACATAT CTTGTAAATN TTTGCTGAAG 120
AGTTGTGTCT ATATATAGAG AAAATATATA TAANCAGAGA AATAAA 166

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SEQ ID NO:6377
SEQUENCE LENGTH:158
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07541

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SEQUENCE DESCRIPTION:

GATCCAATGC CCTAACTTT ACATAAGAGT TCCGGCAAGG CTGTGACTTC AACTTGTTGTT 60

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EP 0 679 716 A1

GTAAC TGCA CCTGCAGAAT CAAATTTAGG GTTATGTTTT CAGTTGTATC AGTCTTACGG 120
CTACAAGATA TTAAGAGAT TCTTCCTGG TTATCAAA 158

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SEQ ID NO:6378
SEQUENCE LENGTH:323
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

10

CLONE:HUMGS07543

SEQUENCE DESCRIPTION:

15

GATCTCACCT TGTGTGCAT CATAGAATTC AACTGGACT AAAACCTTTT AAGTGAAGG 60
ATTGTGAAA ATGTTTAGT CGAAGCTCTC ACCTTTATTC ACATCAAAGA ACCCACTG 120
GAGAGAAACC ATATGAGTGT CATGATTGTG GAAATCTTT CAGCCAGAGT TCTGCCCTTA 180
TTGTGCATCA GAGGATACAC ACTGGNGAGA AACCATATGA NTGCTGTCAG TGTGGGAAAG 240
CCTTCATCCG GNAGGATTGN CCTCATTANG CACCGNGAT TTCATGTTNG NGNAGAGGCC 300
TATANTTGA ATCAATGGTN ANN 323

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SEQ ID NO:6379
SEQUENCE LENGTH:318
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

25

CLONE:HUMGS07544

SEQUENCE DESCRIPTION:

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GATCCTTCTA ATCTCCTGGA CCTCCAGGG CACTCTGGTC CCTATTCCCC AGCTCCTAGG 60
CAGCTGAGCC GGTGCCCTTA GGGGAGGTGA CCAGGAGCTT TGGTGAGGG AGCTCTTNGT 120
GGGGCAAAGG GCTGGACCCC TGCCAGGTCT GTGGACATGG TTATATGCCC GGNGAGGGG 180
GGTACAGGGC CCCAGGGATG GCCCCAATC CCACCTCTGT TTATCTGTGA AACTGCAACC 240
TATAATAAC CTTAGCATT CCTATTGTA ACAAATNG NNTTTNTGNA AATAAATTAT 300
ATTTCCTAGT CTAACAAA 318

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SEQ ID NO:6380
SEQUENCE LENGTH:77
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS07545

SEQUENCE DESCRIPTION:

GATCTTCTCT GCCTTTATTG TTTTGCCATT TCACTAAAAT ATGTTTAGAG ATATATAAAT 60
NCTGCTTGGA CTCTAAA 77

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SEQ ID NO:6381
SEQUENCE LENGTH:32
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS07546

SEQUENCE DESCRIPTION:

GATCTCATTT TACAAGAGAA TCTCTCTGCA AA 32

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EP 0 679 716 A1

5 SEQ ID NO:6382
 SEQUENCE LENGTH:83
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07547
 SEQUENCE DESCRIPTION:
 10 GATCTCTAAG TGTAGCTGTA AATTTTGGGG TTAATTGGC TTATATTGGN CCTTTTAAAA 60
 GNAATAAAGT TTTTAATGC AAA 83

15 SEQ ID NO:6383
 SEQUENCE LENGTH:74
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07548
 SEQUENCE DESCRIPTION:
 20 GATCTATAAA GAAACATAAG CTAAAGTTG TTTATCACTG TGGTGTTAAT AAAACAGTAT 60
 TTTCAAAAAA TAAA 74

25 SEQ ID NO:6384
 SEQUENCE LENGTH:342
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07549
 SEQUENCE DESCRIPTION:
 30 GATCCAGACC TCTCTAATAT GAAGAATAAT GAGCCTTATN ACTATAAGTT TGTNAAATGG 60
 ATGACTAAAC ATAAGAACT ATCAGCCATC CCCGTTTCAG CATTCTGTAA CTCAGAGACT 120
 AAATCACAGT TTGAGAAGTT TGTNCGTTTT TCCTTCATTA AAAAGACAG CACACTGGAT 180
 GCTGCTGAAG AAATCATCAA GGCATGGNGT GTACAGAAGT CTTGATTGT GCAGAATGGN 240
 TTAATGTTTC TGTTAGATGA CCTAGTATGG NATGTNACT TAGTGCTGCC ACCTGCTGGG 300
 35 ATGTTAANNG ANTGTNGGAT GCGTGGCCTG GCGGTGNNNG CN 342

40 SEQ ID NO:6385
 SEQUENCE LENGTH:118
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07550
 SEQUENCE DESCRIPTION:
 45 GATCCTGTGT TTTGAGTCCC AAAGGCCATG CCAAGGATTG GCTTTGGNTG GCTTTAATCA 60
 CCAACCCATC AACATCAAGC CTCNCAGG CCGGTTCAAA TAAATGTANT TAAATAAA 118

50 SEQ ID NO:6386
 SEQUENCE LENGTH:277
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

55

EP 0 679 716 A1

CLONE:HUMGS07551

SEQUENCE DESCRIPTION:

GATCCAACAA ATTAACCATA TAAGCACAGA AAATAGAGAA ACACAGTTAT TGAATCTACT 60
 CTTGTCATTA ACATTTTCAA AAAACAAAAT GCATATTGTA ATATTTGGTA CATGACACTT 120
 GCATGTTGNT ATGCCTATAT NCTTGCAAAG NATTCAATGT GTACTTAGCG GCGNTTAAAN 180
 CTATGTCATG TACAACNTTT ATAAGCNTTT TTNCNGGGGT CCCATTGGCC CTTTCATCTTT 240
 CAGTAAAGTC TTTGTCAGGN AANNGTTGTN TGGTTAN 277

SEQ ID NO:6387

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07552

SEQUENCE DESCRIPTION:

GATCCAGGGA TGGGAATGGG AGTGGGTAGG AGGGGTAATG CGGTCATTGG AGTCGGGGGC 60
 TGGAACATTA TGAGTGCTCA ATAAATATAA ACTAATGAGA AA 102

SEQ ID NO:6388

SEQUENCE LENGTH:338

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07553

SEQUENCE DESCRIPTION:

GATCCAGAGG TGGGTGCAGC TGAAAGTAAA CAGAATGGAT TGCCAGTNAC ATGTATGCCT 60
 GCGCAGTTCC CTTTNNATTT GCAGAAGCTG TGAGTTTTGT NCACAATTAG GTTCCTAGGA 120
 GCAAAAAACC TCAAGGATTG ATTTATTGTT TTCAACTCCA AGGCACACTG TTAATAAACG 180
 AGCAGGGTGT TTTCTCTCTT CCTNTCTAAT ATATGGAGTT TCGAAGAATA AAATATGTGN 240
 GCAATATTTA AATTCTCAGG AATTGNTNA TACTCTTGNG GAATGGANTT CAGTTTTCAN 300
 TCANGNTTTA CATTTNTGGT GGCTTAANAA NCNTTGGN 338

SEQ ID NO:6389

SEQUENCE LENGTH:245

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07554

SEQUENCE DESCRIPTION:

GATCAGTCTT TTGAAATTGG GATTCTAAAT TAGAATGAGA GGAGGAGCTG CTAAAGCATA 60
 AAAATGGTAG GGGTGATTTT GGTNTTTTAT CCTAGTGACC AATGTTGACC ATTAATTGTA 120
 CATTATAAAT AATGTTTTCN TCTGGGACTT TTTGCACTTA ANGCTGGTAA TTNTNATCAT 180
 AGGGCTTCAA ATACAAAAGA NTTGTATGCG GTNTTCAGAA AATAAACATG CTCTTTGCAT 240
 ATAAA 245

SEQ ID NO:6390

SEQUENCE LENGTH:345

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07555

SEQUENCE DESCRIPTION:

5 GATCTTNACG CGNCTGGGGG CGAAGATTTT GCCATGGATG AGGATGGGGA CGAGAGCATT 60
 CACAACTGA AAGAAAAAGC GAAGAAACGG AAGGTTCCGG GCTTTGGNTC CGAAGAGGGG 120
 TCCCGAGCGC GGATGNTGAG GNTTATNACA GCNTGGAGCA GGATGGCGAT GAACCCGGAC 180
 10 CACAACGCTC TTTTGAAGGC TGGATTCTNT TTGTAAGTGG AGTCCATGAG GAAGCCACCG 240
 AAGAAGNCAT ACACGTCAA TTCGCAGANT ATGGGGAAAT TAAAAACATT CATCTCAACC 300
 TNGNCAGGCG TTCCAGGNTA TCTGGAAGGG GGTNTNCTCT NGTCN 345

SEQ ID NO:6391

SEQUENCE LENGTH:343

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07556

SEQUENCE DESCRIPTION:

20 GATCCCTGCG TGGTCTCTGG CAGTCTCCTT GATTTTGGGT ACCATGTATA TTTCCCGCTT 60
 TNACTTTAAC GCTTTCTAGG ATAGGGTAAG CACCCTTAAT TCAGGCACCG TCCATNAGCT 120
 TCCTTTGCAA AGGCTACTTA TGGCCGGTCA CAATCCAGCA CTCAGACAGA GCCAAGGCAA 180
 TATCCTCTTG CCCATGGCTA TNATGTCAGA CAGTGGATGG GCTCCAGCAA CAAGAGTCAA 240
 25 AATAACTAAA GGCCTTTGCT CTCCTCTGAC ATTGAGGCCT GGGGCTTACA GTTTGGAATA 300
 CAACATGTGA NGGTTTTTGN TNGTTGTTTG TATTATTGNA GAN 343

SEQ ID NO:6392

SEQUENCE LENGTH:185

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07557

SEQUENCE DESCRIPTION:

35 GATCAAAAAT TGTGGCCATC TTTGCAAATN ACTACCTNTA GCCTGTNAAA ATACATTTCA 60
 AAAAAATGTTA TGTGCAATGA AACTAAAT NAAGAGCAGT TACAGTGTGA CTCACTCATG 120
 TTTAAAAAAN ATCGAAGAGC TAAAAAATAC GTCTAATTTA TGTAACCCNT TGGNATGTAT 180
 TNNTN 185

SEQ ID NO:6393

SEQUENCE LENGTH:68

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07558

SEQUENCE DESCRIPTION:

45 GATCATTTCT TGTAATGTTT TGAGAGTAAT GCATACAGAA ATATAATAAA NTGTGTTGAA 60
 ACTGCAAA 68

SEQ ID NO:6394

SEQUENCE LENGTH:163

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07559

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SEQUENCE DESCRIPTION:

GATCCCCATT GTGTATGANC TGAACAAGGA GCTGAAGCCC ACCAAGCCCA TGNAGTTCCT 60
GGGTGATGAG GAAACGGTGC GGAAGGCCAT GGAGGCTGTG GCTGCCCAGG GCAAGGCCAA 120
GTNAGGGGTG GGCTTGGGCA ATAAAGGCAC CTCCCCAAC AAA 163

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SEQ ID NO:6395

SEQUENCE LENGTH:275

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS07560

SEQUENCE DESCRIPTION:

GATCAACTCC CACTCATCCT GCAGATTAA GCTTGGATGT CACCTCCCGA GGGACGCTGT 60
GCCTGCCTCC CTCGTAGAG CAGGTGTTGT CATCTACTCA CAGAATCTGG CTCCTTCCA 120
CAAAGCACCC CCGTGAGCAT CTGTTTAAACA TTGTCTCTCC ACCTAGACTG TAAGGTCCGT 180
GAAAGCAGGG ACCACACCCA TTTGTGCTCA CTTGGGACCT ACAGCCTCTA ATCCAGAGCC 240
TGACACAAAC CTCAATAAAT ATTTAAGGAC TGA AAA 275

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SEQ ID NO:6396

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SEQUENCE LENGTH:131

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07561

SEQUENCE DESCRIPTION:

GATCCGGGAC CTTCANACCC AGGGAAAGGG TGAGGGAGAC TGGGGCCTGG TCTGCTTTC 60
CGGGCCTGAA AGCTTCCCG AGGTTTGAG GGTGAGGAG GAGGAACGGT GGGGGNNGGC 120
AGTCACTGNN N 131

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SEQ ID NO:6397

SEQUENCE LENGTH:359

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07562

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SEQUENCE DESCRIPTION:

GATCCATTTA AAACAAGCTG ATAGTGTTC GTTAAGCAGT ACATCTTGTG CATGCAAAAA 60
TGAATTCACC CCTCCACCT CTTTCTTCAA TTAATGGAAA ACTGTAAAGG GAAGCTGATA 120
CAGAGAGACA ACTTGCTCCT TTCCATCAGC TTTATAATAA NCTGTTTAAAC GTGAGGTTTC 180
AGTAGCTCCT TGGTTTTGCC TCTTTAAATT ATGACGTGCA CAAACCTTCT TTTCANTGCA 240
ATGCATCTGG NAGTTTTGAT ACTTGTAAC TTTTTTTTTT TTNGGGGNN ANTNNTTNG 300
GGNCCAGGGG TTTTTTTNG GAACCCCTTG GGCNNTGGCC CNNGGGTACC CGGCNAGNN 359

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SEQ ID NO:6398

SEQUENCE LENGTH:61

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SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07563
 SEQUENCE DESCRIPTION:
 GATCTCTGAC GATACCTGTA TGTTCCTTATT GTGTAAATAA AATTNCTGGT ATGAAATNAA 60
 A 61

SEQ ID NO:6399
 SEQUENCE LENGTH:367
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07564
 SEQUENCE DESCRIPTION:
 GATCCTGTGG GAAAGAGAAA GGCATCCCAG AAGTTTGA CT TGTTCCTT TTAGAATCTG 60
 TCCTGCAGG AAAGAAAAGT CATTTTAATA AAAACCAAAA TAATTATATA TAATTGTNGC 120
 CTTCCCTCC CCATCCTCTC CACTAAGCCA GCAACTAAAT GTATTCAGAA AACAAGTTAA 180
 TCAAGGAGGG CAGAAGAATT TTTTAAAC TGTAAGAAAN TGTTCCTAAG TTAGATTTA 240
 TTACCTGTCA TTAGGGCAA AANTCCAGTG TCCCAGCAC ATGGTGACCC AACTNTGTCT 300
 CACAGTTGCA AAGTGTGTTG GAAAATAAAG TTGCTTTGTG NACTTNGNGG GNAANNCNNT 360
 NANNNNN 367

SEQ ID NO:6400
 SEQUENCE LENGTH:379
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07565
 SEQUENCE DESCRIPTION:
 GATCAGGAAC CAAAAAGAAG AATGTA CTTC ATCTGGTTGG GCTGGATTCC CTCTNATAAG 60
 CCTTCCAGT TGA CTGAAAG ATGAGGCTAG GCTCTAGCAA GTTGAAGTCA AACCAGCTCC 120
 TTCAAGAAGC TTTGAGCAGA ATGAAGTGGG GAGGACCCAG CTCCAGCCC AGGAAGCCCA 180
 CTGTACCTGG AGCCATCTGG GATAAGACTT TGACCCATGA CTCCATATC CACAGCCTGT 240
 CCATCCTAGC CCATCCAGT TTATCCTGTA TCATTGAGC TGGGNTTCCA CATCCTCTGA 300
 GTTGGTAGTC CCATNTCAAG TCNTTNAATA AANGNCTNTT TGGANTATT GANTTCACAT 360
 TAAAAAANA ANAAAGGCN 379

SEQ ID NO:6401
 SEQUENCE LENGTH:225
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07567
 SEQUENCE DESCRIPTION:
 GATCGGGGTA TGAAGTGTGC ACACGCAGCC CAACAACGGG CAGTGGTCTC TGTGCTCCTA 60
 GGATCCAGC ACAGTTCTG GCAGGGCACC CCTGCTGGGG TTGGGGGCTG GTCTGTGCAT 120
 AATCCTGGAC TGTGATGGGA ACAGCCAGT GCAGTCTAAA CTTCAATTGT GTTGAAACTA 180
 CTTAATAGA CAAAGTAATA AATCATGTTT ATCTATTGAT TAAA 225

SEQ ID NO:6402
 SEQUENCE LENGTH:60
 SEQUENCE TYPE:nucleic acid
 5 TOPOLOGY:linear
 CLONE:HUMGS07568
 SEQUENCE DESCRIPTION:
 GATCTTCAGT TGTATTTTNG TGAATATTTT AATACATCTT TTTCAATTC TGAAAACAAA 60

10 SEQ ID NO:6403
 SEQUENCE LENGTH:176
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 15 CLONE:HUMGS07569
 SEQUENCE DESCRIPTION:
 GATCCGGTGC TACGGGAAAC ATTTTCCTAA GATGCCCATG AGAACAGACC AAGATGTGTA 60
 CAGCACTATG AGCATTAATA AACCTTCCAG AATCAATAAT CCGTGGCAAC ATATCTCTGT 120
 AAAANCAAACT ACTGTAACN CTAAATAAAT GTTAGTCTT CCCTGTAACC TTCAA 176

20 SEQ ID NO:6404
 SEQUENCE LENGTH:360
 SEQUENCE TYPE:nucleic acid
 25 TOPOLOGY:linear
 CLONE:HUMGS07570
 SEQUENCE DESCRIPTION:
 GATCTTCCCT GCGGCCTCTG CCCTGGCCTG CTTCCCAGCA CACACTTCTT TGGCCTAAGG 60
 GCTTCTCTCT CAGGACCTCT AATTGACCA CAACCAACCT GGGCTTCAGC CACATCAGTG 120
 30 GGCAGTGGAG CTGGGGTGCA CATGGGGCCT GCTCACCTTG CCCACACATC TCCAGCCAGC 180
 CAGGGCCCTG CCCAGCTTCA ATTTACAGAC CTGACTCTCC TCACCTTCCC CCCTGCTGTC 240
 CAGAGCTGAA CATAGACTTG CACTTGGATG TCACCTGGAG TGTNACATGG GAGTGTATG 300
 GCAGCATCAT ACCAAGGCCT ACTGTTGCAC ATGGGGCCAA AACCAGTAAA CAGCCACCTN 360

35 SEQ ID NO:6405
 SEQUENCE LENGTH:32
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 40 CLONE:HUMGS07571
 SEQUENCE DESCRIPTION:
 GATCTNACTA ATAAATGAAG GGAAAAAGGA AA 32

45 SEQ ID NO:6406
 SEQUENCE LENGTH:219
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 50 CLONE:HUMGS07572

55

EP 0 679 716 A1

SEQUENCE DESCRIPTION:

5 GATCTGGTCA TTAAAAAGTG TGTGGCACCT CCCACCACC TCTNTCTCTC GCTCGCTTGC 60
 TCGCTCCTGC TTTNACCATG TNATGTGCCT GCTCCCCCTT TGCCTTCCGC CATGATTGTA 120
 NGCTTCCTGA GGCTTCCCTA GAAGCAGATG TCAGCATTAT GCTTCCTNTA CAGTCTGCAG 180
 AACTGTGAGC CAATNAACT TCTTTCCTTA TAANTTAAA 219

SEQ ID NO:6407

10 SEQUENCE LENGTH:347

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07573

15 SEQUENCE DESCRIPTION:

GATCCAGTTA CATGTATTAT NNTTTTCCTA CCTTATGGAC TATTTTGGAG GGATAAGCTA 60
 TTAAGACTAA GACTATGNGT GANAGTNGGG GAAGGAGCAG GAAGGGAGGA ACCTGCACAC 120
 CACATTGGAA CNGCACACC ACATTAACAC AAAGGCAATC TTCTGGCTCG GACTGTTCTT 180
 TACTACTGTN CTAAAGAAA ATGTTTCATTC TGCTGCAGCT ANCTAGCCTC CATCTNCTAC 240
 20 ACCAAATACT ATTCCATGCC ATGGAAGTGC TATGCAATAA CTNTCCCAGG TAGGCACCTT 300
 ATACCCGCTT AAANAGNCTT TAAANATNTG CANTTTTGGT NGGNGTN 347

SEQ ID NO:6408

25 SEQUENCE LENGTH:208

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07574

SEQUENCE DESCRIPTION:

30 GATCACTCCT TATTTGCTGT TATTTTNGTN CTCTTAACCA TACATTTCCC AATGTTTAAA 60
 GGGTGGTATT TNGAGAAAGT NAATGGGTTT TGTAAGTGCC AGCNCCTTAT ATAAGCAGGT 120
 AGACTAGCTT TTNCCAGCA GACGCTTGTC TGTNTAGACT TCCTTAAAN AATTATCTTC 180
 AAATAAGCA AAATCTCCAT AAAANGNN 208

35 SEQ ID NO:6409

SEQUENCE LENGTH:318

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40 CLONE:HUMGS07575

SEQUENCE DESCRIPTION:

GATCCATAGA CTTAGCAAGT CTTGCCTTAT CTATGGAGCT CGATGGTGAG AATTGTNACC 60
 ATTGTCTGAT GTCCATAGTT CCTTCCCCCT AGATTGTTTC TTTCACGGA TTGTGTTTCA 120
 CTGAACCATT NNATTTTAA TTACCAAAG TACTGTACTT GGCTATTTGC AGTGTTTCA 180
 45 AAACCAATG TTTCTNTTTT GGTGTTTTTA ATCTCCGATA CTTGGTGCAA TAGAAGCTGC 240
 AAAGATGTGC CACTTNATCT ATGAAATGGA GTNTTGATA CCAATAAATN CTAGTTTAAA 300
 AACANTTAN NANNNANN 318

50 SEQ ID NO:6410

SEQUENCE LENGTH:233

55

EP 0 679 716 A1

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07576

SEQUENCE DESCRIPTION:

GATCTGTAA GGGGTGGATA ACATAATATG CAGCTTAGGA TGCTATTTTA AGATGTATGA 60
TATTCAGTTC ATTCACCTGA TTACTTTGGT TGCAGCACAA CTGTATATAT NGTATAACCG 120
AAATTGATTA TTTNCATTGT CCTTAATGCA GTGATTATA ATTNGAGCAT GTTTAATAAG 180
TTTNCCTTC TNGTAACTA GTCATTGAC TGGNAANNNA TAANATNCTT TTN 233

SEQ ID NO:6411

SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07577

SEQUENCE DESCRIPTION:

GATCCACGA GGACCACTNT GTAATTGNCA GGGGGCTTCC AGNNAAGACA CTGAACCTG 60
AAGCCGTGGT CTGGGGCAGG GTGGTGGGAG AGGTGGGCGG GGGNN 105

SEQ ID NO:6412

SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07578

SEQUENCE DESCRIPTION:

GATCACCTTC CCACTTCATC CATCCCCACC CTTCCAGCTC CCCATCCATC CTGCTGAAAG 60
CATTTCCACC ACTCAATAAA ACCTCGCATT CATCCTTCAA A 101

SEQ ID NO:6413

SEQUENCE LENGTH:332

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07579

SEQUENCE DESCRIPTION:

GATCAGAAGG AATCCGNCGA GGCAGGGATG GGTGTGCCCA TGTNTGCCTT GACGGGACTT 60
CATCTTATAG ACTGTAAAC TGTCACACAC AACAGGCTT TCCACCCCTG CTCTGNGNGC 120
ACCACGCACA GNTTCCAGT TCTTAGTGTG GCTGTTTAAA GTAGAAAATC TGGGGGCTGG 180
GTGAGGCCAC TCATGCCTGT AATCCAGGGC TTTAGAAGGC TGAGGCTGGG GGGNTTGTTC 240
GAAGGTCAGG AGGTTCAAGG CCAACCTTG GGAACCATAG GCAACNACCC CCCATNNTNT 300
NCCAAANTNG AAAAANCCAA AAAGGNNAAAC CN 332

SEQ ID NO:6414

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07580

SEQUENCE DESCRIPTION:

GATCTACCAG CATAAATATC TNCTNATTTG TCCCTATGCA TATCANTTGA GCTTCATATA 60
 CCAGCAATAT ATCTNAAGAG CTATTATATA AAACCCCAA ACTNTTGATT ATTAGCCAGG 120
 TAATGTGNN 129

SEQ ID NO:6415

SEQUENCE LENGTH:257

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07581

SEQUENCE DESCRIPTION:

GATCTAGAGG AATTAGTCAT GACATCAAGA AAGGAGTCTA AAGAAGAGAA AGAAAATCAA 60
 GATGAAAGAG AAGTAAAAGA AGANGAACAA GAAGAAGAAG AAGAAGTCAG GTCAGCAGAA 120
 ANTTCTCAA ANTCTCCAAA GAAAGGTAC TGATTCCAAG GCANCCTGTG GNAAGANGAN 180
 TTCAGATGTC AGTGGGAGCC TCCAGGTGGG NGNGAGCAT GCCTAANCC TGGTGGCCAT 240
 TGTNCTGTAC TANGGAN 257

SEQ ID NO:6416

SEQUENCE LENGTH:138

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07582

SEQUENCE DESCRIPTION:

GATCCACAAG GCTTCTGTAT ACAGTTCACG GTCCTCGGCA TTGCTTCTNG TAATTTNCC 60
 ATCCCAAAGG AGAGCTACTG TACTGACTGT ACTTGTGGAA TNCAGCGCTT CATTAAATTA 120
 AGTTTATTAA AATGCAAA 138

SEQ ID NO:6417

SEQUENCE LENGTH:331

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07583

SEQUENCE DESCRIPTION:

GATCTAATGG GACACGGCCA GTGCCTAGGG GTGCCAAGTC CAAGGCCTCC CACTGGGNGT 60
 AATCGCTGAG AAGATGCCAA TTTTTCATCC ACCGGCTGCA CAGGCACAAA CTCCCCACC 120
 CAGGACGGCT GTNATGAGGT GGCCTCCCT NTNAACCCTG GTCCCTGGAG TCCCCAGCAC 180
 CTGGGGCCCT GGTGGGGCTG ATGTCACAGG TGTTTACTGT GCTGCTGCAC TGGTCTATG 240
 NCAGCTTAC CCCATGTGGG GACCACGGAA GGNACAATNC CTTACCCCG NTTGCCGGGN 300
 CCGTGCGGTN NNCAAGANGG GNCAAGGANG N 331

SEQ ID NO:6418

SEQUENCE LENGTH:337

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07584

SEQUENCE DESCRIPTION:

5 GATCCAGCTT ATCCTTTAAT TTCAAAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60
 TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT GTNATGTTGG CAGGGGAGGG 120
 GAGACCTGGG TGGTGACTGA GTTCCCTTTA TCAAACCTT CAATGGGCAC AAAATTNAGT 180
 GCTTGATTTT ANGGTTTAT TTTTATGA ATGTCCAAA TCTGTGTTT CCCNNTGCCC 240
 TCCCAAGANN TGTGTGGGCC AGTTGAAAGT GTCTTGGTTT TGTGGTCAT CTTTCCCTN 300
 AATTTCTGGA GCANGNCCC TGAGNNCCNT GCCANAN 337

10

SEQ ID NO:6419
 SEQUENCE LENGTH:350
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

15

CLONE:HUMGS07585

SEQUENCE DESCRIPTION:

20 GATCATGGAT GTAGCATACA CCAAAATCCA CCGAGACCTT TGCAAAATNA GGCTACTTGT 60
 TTNATTTTGC CAGATTATCA TGGGAGAGTC TTAACTAGT NCTGAATATT TGTAAGTCTG 120
 AGTACTTCAT AGAATTATAA AGAAGGTACA GCTGACCCCT TCTCACCATG TNGTAAATAT 180
 TTCTGAGAC TGGGTGCAGT ACTGAGGGAT AATAATCTCC TGNITTATCA AATCCTGACT 240
 GTCTAGAGCA ANTTGTACAC TCTCTTTGTG AATGGTCCTG TAACGTGTAT GNACACATTT 300
 NTGGGTGCCT TAGANGTNGT NTTTTNCATG TGTGCTAATN TGCAGTTTCN 350

25

SEQ ID NO:6420
 SEQUENCE LENGTH:362
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07586

30

SEQUENCE DESCRIPTION:

35 GATCCAGGGT CTNAACCGCC GTGGGACGAG GAGGGCATCC CGGCCACAGC AGGGGCCGAG 60
 GAAGAGGAGG AGACAGAGGG GAAAGGGGAG CCGGCCTGAC CCACACCCCC GGCCATCGCT 120
 CCCTGGGCCA GGTTTAGAGC AGGGAGTTTG GCTGGTGCTG GGCCTGAGCC AGGGGGCCGG 180
 GACACCCTTG TTTCCGGTGG TCTTCCCGTT GTGGGAGCAG GTNGAGGGTG GAGACCTAAA 240
 CTTTGGGGTC CAGCTGCCTT CAGCCCNCT CCNCCAGACT AACAGACCCT TGGAGGCAGG 300
 GGCTGTGGAA ATAAATCTTT GCCTGNTGGG NTAAAAAAA ANTATNANNT GTGNNGTT 360
 GN 362

40

SEQ ID NO:6421
 SEQUENCE LENGTH:114
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07587

45

SEQUENCE DESCRIPTION:

GATCTNCTCT CCCACCCACA CTTATCTCCC CCAGGGCCAC TCCAAAGTCT ATACACAGGG 60
 GTGGTCTCTT CAATAAGAA GTGTTGATTA GACCTGAATT TCTCCACCTA TAAA 114

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SEQ ID NO:6422

55

EP 0 679 716 A1

SEQUENCE LENGTH:62
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
5 CLONE:HUMGS07588
SEQUENCE DESCRIPTION:
GATCTTTGCT ACTGGAGTCC TTAAACAACA CCTATAACGA TAAAAAATTC CTAATTNTTA 60
AA 62

10 SEQ ID NO:6423
SEQUENCE LENGTH:96
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
15 CLONE:HUMGS07589
SEQUENCE DESCRIPTION:
GATCCTTCAT ATTTAATTAA AAGTGTTTCAT TCAGGTAAGG TGTATGTTGA AATTTNCCA 60
ATNATCTTAA TAAAACCTGG CAATTTAAAA NCCAAA 96

20 SEQ ID NO:6424
SEQUENCE LENGTH:88
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
25 CLONE:HUMGS07590
SEQUENCE DESCRIPTION:
GATCTATTTA TTTAAGTATG TAGTAAACAA TATCTNAAAG TGTCCGATTC ACTACTTGTA 60
AATTAAAAAA GTNATGATTA ATGTGAAA 88

30 SEQ ID NO:6425
SEQUENCE LENGTH:314
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
35 CLONE:HUMGS07591
SEQUENCE DESCRIPTION:
GATCAGAAGA AGCTACAGTT TTNTTTTAAA CTTGAAAAAA AATTAAGAAG TATTAAGGAA 60
AAAGCTTAAT ACTCTGGAAA CCAGACATCT GGTCTTTCTC ATGCGTAGGG AGCAGTGTA 120
ATGAAAGTGA AGTCAAACGG ACAGTTTTTT NCTGCATTAT GCACAAGGTG TTTTAAATG 180
40 TCAGCTTAAG GTTTAGATGA NGATAATCTT TAACTTTGTT TACAATTTG NCTATTTNGC 240
ATTATCCCCC TTTTCCATA AAANNTAANG TGAATATGTG TGCATATNNN TNTNGAGTCA 300
NAATTAACT TATN 314

45 SEQ ID NO:6426
SEQUENCE LENGTH:91
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
50 CLONE:HUMGS07592
SEQUENCE DESCRIPTION:

55

GATCCTGTGG TGTGTATAA AAATGAACAG CTAATAATT ACCCATGACA AGATTAAAGC 60
 AAAAATAAAC ACAAAGTTGT TAGACTTTAA A 91

SEQ ID NO:6427

SEQUENCE LENGTH:122

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07593

SEQUENCE DESCRIPTION:

GATCTTGTGC TATACTTTT AAAGCCATAC AAATAAGAGT GCTAACTNT GGACTTAAAA 60
 GTAGGTGTNT AAATATTTT AATCAGTATT ACTTGAAAA TAAATATAA CAAACCCATA 120
 AA 122

SEQ ID NO:6428

SEQUENCE LENGTH:293

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07594

SEQUENCE DESCRIPTION:

GATCCTAACC CTGCAGGGC TCAGGGGTCA GCAGGGACCC ACTGCCCCAT CTCCCTCTCC 60
 CCACCAAGAC AGCCCCAGAA GGAGCAGCCA GCTGGNATGG GAACCCAAGG CTGTCCACAT 120
 CTGGCTTTTG TGGGACTCAG AAAGGGAAGC AGAACTGAGG GCTGGGATAT TCCTCATGGT 180
 GGCAGCGCTC ATAGCGAAAG CCTACTGTAA TATGCACCCA TCTNATCCAC GTAGTAAAGT 240
 GAACTTAAAA ATTCAATCAA ATGAACAATT AAATAACAC CTGTGTGTTT AAA 293

SEQ ID NO:6429

SEQUENCE LENGTH:209

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07595

SEQUENCE DESCRIPTION:

GATCTGAATT TGTAAGTTAT TAATGTGAAA GGGGGAGCAG GAAGCTCCCC GTTTCACAA 60
 AGGGGGATTT GTTTCACAA AGTTCAGTGT AAATACTGTG AGANTNGANT TCTGAAAAGG 120
 TCATATTTAG TGATTCAAA AGCACACATT TAANTGANGA CTGACTAAAT AANAGGTACC 180
 ACACACTTCT NGGTTGGTTT CATTCCAAA 209

SEQ ID NO:6430

SEQUENCE LENGTH:200

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07596

SEQUENCE DESCRIPTION:

GATCTCCCTC AGTNTGCCCC CAGCCCCCAA ACTCCTCCTG GCTAGACTGT AGGAAGGGAC 60
 TTTTGTGTTT TTGTTGTTT CAGGAAAAA GAAAGGGAGA GAGAGGAAAA TAGAGGGTTG 120
 TCCACTCCTC ACATTCCAGC ACCCAGGCCT GCACCCACC CNCACTCCC AGCCCGGAA 180

TAAAACCATT TTCCTGCAAA

200

SEQ ID NO:6431

SEQUENCE LENGTH:131

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07597

SEQUENCE DESCRIPTION:

GATCTNATTC CAGGATTGCT CAGAAATTGG AAAAAAACTC ACCTGTGCTT CCCAAATTTA 60
 TTTCCCAAGA CAAAGATGTC TATAGCACAG AAAAAAATGC ATGANTTAAA AAATCAAGAT 120
 GTATTATTAA A 131

SEQ ID NO:6432

SEQUENCE LENGTH:42

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07598

SEQUENCE DESCRIPTION:

GATCCTGAGC TGTCCCATTA AACATGGCCC TGTCTCGGTA AA 42

SEQ ID NO:6433

SEQUENCE LENGTH:332

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07599

SEQUENCE DESCRIPTION:

GATCCACTAG ACAGTTTNC A GTTGCTTGG AGGTANCTGG GTAATCAAAA ATGTTTAGTC 60
 ATTGATTCAA TGTGAACGAT TACGGTCTTT ATGACCAAGA GTCTGAAAAT CTTTTGTNA 120
 TGCTGTTTAG TATTCGTTG ATATTGTNAC TTTTCACCTG TTGAGCCCAA ATNCAGGATT 180
 GGTTCAGTGG CAGCAATGAA GTTGCCATTT AAATTGTTC ATAGCCTACA TCACCAAGGT 240
 CTCTGTGICA AACCTGTGGC CACTCTATAT GCACTTNGGT TTA CTCTTT ATTNCAAATA 300
 ANTATACTAA AAGNCTTTAA ANNANGNNNA NN 332

SEQ ID NO:6434

SEQUENCE LENGTH:224

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07600

SEQUENCE DESCRIPTION:

GATCAATACG GGTCTATTT NATGTCAACT GAACACTGTA GGGTACCTTC CAGTCTTTTT 60
 CAAGATTGTN AAATTGAGAC AAGTAATTGA ATAATTTGTC CTATTTTAAT TTTAAAAAAA 120
 GTGAATGGNC TGAAATGTTA AATGTGAATG TNCATTTCTN AATTGCAACT TTNCTACTGA 180
 GTGTTTGAC TATACTTNCT GGAATCTNAT TTAACAAANN TANN 224

SEQ ID NO:6435

SEQUENCE LENGTH:188

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07601

SEQUENCE DESCRIPTION:

GATCAAAAAG CACAAAGAGC TGGGGCAGAG GCAGGAAGCA GGGGCCCTCC TGGCAGCTCC 60
TCTNAGTGGG GAGAGGTTGG GCAGTGAGTG AGGGACCCCT AATGCAGGGN CTAGAAGCCT 120
CANTTTCCCC NTTTTACCCT TCCACACAAT AGCCTCTGTA GGNNAGGCTG CCCCATNCCA 180
CCNGGNTN 188

SEQ ID NO:6436

SEQUENCE LENGTH:256

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07602

SEQUENCE DESCRIPTION:

GATCTAGGAC TAANACTTAA AATGTGGTTG GAATCTCACT CAAGGCCTAC CCACCTAAAA 60
CTGCGTTCTA GCAATTGCAT GCTGACTGCA CCTATGAGTC GTAAGNCTGT AGTTGCAAAG 120
TGTGTCTAGT TTNANATTCT TTCTAAATAC TGGTACGGGN AACAGGCATT CCAGNACTTG 180
TGGCTTGCTG GNGGTGGTNT GAGTNATGNG GAATCTTGGG AAGGGGTTCC TGCCCCCTGGG 240
ANTTGGGGGG TTTTNN 256

SEQ ID NO:6437

SEQUENCE LENGTH:240

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07603

SEQUENCE DESCRIPTION:

GATCCAGGGC CTTTNAACA TCCCCAAAGT CATGGCCATA CTCACCATTA GCCAGTTTCT 60
AACATCTGTT TCAGGGTATC CAGCTGTAGA TGTTCTTATC CCCCATACTT GTGAGTTCTT 120
GGGGTTGCTC ACAAATACTA GGGGTTTTTG TTGTATTTT AACAANTATA TCCTAATGTC 180
ATATTNATNC TCTTTTGTA CTGCTGGTCT TTACANTAAA GGNGTCATCT GCCTTTCAAA 240

SEQ ID NO:6438

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07604

SEQUENCE DESCRIPTION:

GATCAGCACC CTTCTCCACA TCCACATGAC TGGTTTTTAA TGTAGCACTG TGGTATACAT 60
GCAAACATCC GTTCAAAATC TGAGTCGGAG CTAATAATAA AAAATGAAAA ANCAGAAATA 120
AGAAA 125

SEQ ID NO:6439

SEQUENCE LENGTH:321

EP 0 679 716 A1

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07605

SEQUENCE DESCRIPTION:

GATCCGCCTG CNTCGGCCTN CCAGAGTGCT GGGATAAAAG GTGTGAGCCA CTGTGCCTGG 60
 CCACTCCCTT GAGACCCAGT TTCCACGTCT GTNAAATGGG GGAATACCCA CAGTGAGAAT 120
 TAGATGAGAT AGATGCATTT NAAACCACAA ATCGGGGTGC CCACCTGTGG TGGGTAGTTA 180
 GGGTAGCTGT TACAAAGTGC CCCAGCAGAG ACCCCCTTGA CTAACITTNA TTCTTCCATC 240
 TTTTCCACA GGTGGCAGCT GCCAACAGA AGCATTAGAA CAAACCATGC TGGGTTAATA 300
 AATTGCCTCA TTCGGTANTG N 321

SEQ ID NO:6440

SEQUENCE LENGTH:123

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07606

SEQUENCE DESCRIPTION:

GATCTTTGTC CAGAAAATAA AGCTTTCTGT TGATTTTTTC TTAAAGCAAG AGGTAAGGAA 60
 ATATGCACTT AAGANTATGT GTACAAGAAA ATAGTTTCTA AAATAAATTG AAATGTCTGC 120
 AAA 123

SEQ ID NO:6441

SEQUENCE LENGTH:284

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07607

SEQUENCE DESCRIPTION:

GATCCACTCT GGACACTCAA CAAGACCTGA ACAGGATTTN CCTACCTGGT CCTTACACTA 60
 CATCATCATC ATCTCATGCC CACCTGCCCC CACCCAGCAG AGCTTCTCAG TGGGCACAGT 120
 CTCTTACTCC CATTINTGCT GCCTTTGGNC CTGCCTGGCC CAGCCTGCAC CCCTGTGGGG 180
 TGGAAATGTA CTGCAGGCTC TGGGTCAGGT TCTGCTCCTT TATGGGACCC GACATTTTTN 240
 AGCTCTTTGC TATTGAAATA ATAAACCACC CTGTTCTGTG GAAA 284

SEQ ID NO:6442

SEQUENCE LENGTH:215

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07608

SEQUENCE DESCRIPTION:

GATCTGGTAC GNGGTGGACG TCATGGCCCG ANATGCCAC GGAACACAG CGCTGACCTA 60
 CGACCGGCAG GCCTCCAGCC ATGGAGTGCA TCAACGTGCT TCTNCAGTAC GGCTGCCCCG 120
 ACGNGTGTGT ATAGTATCTG TTTTATTTGA CTGCAGTCTC CTTGGTGCAA AANCAAANTG 180
 GGAANNTAA GGATAACTCA GNATTTCAAA AGGAN 215

SEQ ID NO:6443

EP 0 679 716 A1

SEQUENCE LENGTH:61
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
5 CLONE:HUMGS07609
SEQUENCE DESCRIPTION:
GATCTNAGAC TTCTACGTC CAGAACTGTA AGCAATAAAT GTCTGTTGTT TATAAATTAA 60
A 61

10 SEQ ID NO:6444
SEQUENCE LENGTH:75
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
15 CLONE:HUMGS07610
SEQUENCE DESCRIPTION:
GATCCTTGCT CTACCTGGCT AGAGTTTCTN CTCATCAGAG CACTGGGACA TTAAACCAAC 60
CTTTTACAAC ACAA 75

20 SEQ ID NO:6445
SEQUENCE LENGTH:207
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
25 CLONE:HUMGS07611
SEQUENCE DESCRIPTION:
GATCTCAGCT CAGAGAGAGA GCATGAGGTC TTTTCTAACT GTCAGGAAAC AGAGCTGTGC 60
CCAATTCCAC TCAACTTTTG GCACAACTGT TAATCTGGGC CTTACCTAC CTAAACTGA 120
GTTTCTGCAA GCATAGCATT TTAGACACCC TGAATAACC TTTGGGAAT GATGCCACAG 180
30 AATAAAGTTC ACTCTTAACT TTTCAAA 207

35 SEQ ID NO:6446
SEQUENCE LENGTH:307
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07612
SEQUENCE DESCRIPTION:
40 GATCTGATAG TGGTAGGTCT ATCAGGAATA TCAGGNAAAA TNCTTTTAAT GTTGTGGCA 60
AAGTCAATTC CTATCATTTG TACTTGACAC CAGCTACCTA GCAGGCTCAT TGTGAATTC 120
AGGTTTCGCC CACGTTATTT ATATAAGTA TCTCAGTGTA ATATAGGGAG TTGCTGGTTA 180
TTTGAAAATA GTAACAAAGG TAACCCAAAC GAGAACTCC ATTTCCATAA TTNGCTTTCC 240
TGAAAGTCAG GCATGTCTTT GAGGACAGGT TTTGGCAGTA TTNNTNTGT GCACAGGNGG 300
45 GAAATTN 307

50 SEQ ID NO:6447
SEQUENCE LENGTH:219
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

55

CLONE:HUMGS07613

SEQUENCE DESCRIPTION:

GATCTGCCTG TTTATTTTGG TGGGTGGTCT TTCCTCCCTC CCCTACCACC CATGCCCCC 60
 TTCTNAGTCT GCCCCTGGCC TCCAGCCCCT AGGGGACTAG CTGGGTGGG GTTCCTCGGG 120
 CCTTTTCTCT CCTNCTCTT TTCTTTCTGT TGATTGTCGC TCCAGCTGGC TGTATTGCTT 180
 TTNAATATTG CACCGAAGTT TTTNAAATAA AATTTTAAA 219

SEQ ID NO:6448

SEQUENCE LENGTH:272

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07614

SEQUENCE DESCRIPTION:

GATCTGGTGT AGTATATTTT ATCGCATTTT CTTATATTAA AAAATGTCTG CATGATTACA 60
 TTTTATTTCC TTTGTAATTT ACATTCAGA ATAGTGTATT GCTATATGGG TGCCAAGATT 120
 GANTATGAAG AACCCGAGTN TTTGTAGTAT TATAGTTTAA AGCAAATCTG TGTGGTGATA 180
 CAGCCATAAG ANTGGGGCTT ATATAANCTC TGTACATGTA AGATTTTGTG CAGAGAATTT 240
 TTAAC TTAT AAATTGTATA TGANCATGTA NN 272

SEQ ID NO:6449

SEQUENCE LENGTH:300

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07615

SEQUENCE DESCRIPTION:

GATCCACCCG CCTCAGCCTC TGAAATTGTT GGGATTACGG GCGTGACACN CGCGCCTGGC 60
 ATGTATATCA TTTTNATTG TGTATTTTGT AATTTTGTG TGTNAATTGA TTTTAAATAT 120
 AGTTTCAAT TTAAC TTGTT AGTTTCTGTA GTGGCAAATC CTGTGTTTG CAATATTGGA 180
 TTATTTCTCC ATAAGAGTTT CACATTTCTC CTGCTAGGAA ATCCATGGGG AATATTGGAA 240
 TTGGGCTAGT TTAATNNNA TNNCTAATGT TTAANGGTTG TGAAAAANAT TGGCGNCAAA 300

SEQ ID NO:6450

SEQUENCE LENGTH:286

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07616

SEQUENCE DESCRIPTION:

GATCTCCACT TTNCCAAAGG GCTGCNAGAG GTGATTGANA AGAACCGGCC TGCTGATGTN 60
 AGGGCGTCCA CTGCCCCAC ACCGTCCACA GCAGCTGTCT GAGCCCTCAA TCCCAAGCT 120
 GGCAGCTGTC ATTCAGGACC CCAACCCCTC TNAGCCCTC TTTCCCAACA TTCATAGCCT 180
 GTAGTGCCCC CTCTAACCCC CAGTGCCACA GAGAAGACGG GATTTGAAGC TGTACCCAAT 240
 TTAATTCAT AATCAATCTA TCAATTACAG TCCGTCCACC ACCAAA 286

SEQ ID NO:6451

SEQUENCE LENGTH:97

SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
5 CLONE:HUMGS07617
SEQUENCE DESCRIPTION:
GATCTGTGCA GAGAGAGATG GCAGCCACTC CCTTCAGTCC TCCCAGATTT CTGTAGCTAT 60
TTATGTAGCA GGCTCAATAA AATGTCTTCT CTCTAAA 97

10 SEQ ID NO:6452
SEQUENCE LENGTH:113
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
15 CLONE:HUMGS07619
SEQUENCE DESCRIPTION:
GATCNNAGGC ATNNTTCTT CAGTCAGAGC ATTCAATCCT CAAGCCATTC ACACATTAG 60
GCCTCATGCT TTNTCTGTC TTAATCACA TCCATTTCCT AACTCATTG AGN 113

20 SEQ ID NO:6453
SEQUENCE LENGTH:118
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
25 CLONE:HUMGS07620
SEQUENCE DESCRIPTION:
GATCATAAGT CATTCCCCTC CCCTTCAGG CCTCCTGCTA TATTTGGGGG ACCTGACTNG 60
NTTNGCTGGA GTCCCATGAG GATGTGGGCC CNTTAATAAN GGATAGCAAA CAGGCAAA 118

30 SEQ ID NO:6454
SEQUENCE LENGTH:233
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
35 CLONE:HUMGS07621
SEQUENCE DESCRIPTION:
GATCCCCAAA TCCAAGGATG CTTGGAATCC CTTATATAAA ATGGCATGGT ATTTGCATAT 60
AACCTACATG CATCTTCAAA TATGTTAAAC CATCTCTAGA TTAATTATAA TACCAAATAC 120
AATGTAATGC TATGTAAACA GTTGTTACAA TGGATTGTCA AAGGCAAGCT CTNCTTGCCC 180
40 ANTNCGGGCC AANTGNNGG TNCATGAGCA AATTAANTNN NTGCTGGTAT TTN 233

SEQ ID NO:6455
SEQUENCE LENGTH:253
SEQUENCE TYPE:nucleic acid
45 TOPOLOGY:linear
CLONE:HUMGS07622
SEQUENCE DESCRIPTION:
GATCCGAATT TCCTGCTCTA AACCCCTCCAC TGCTTTCTGC TGTTTCCACT GAGGAAAGAG 60
50 GATGTGTGTC ATTAAAGCTT TGTGGGACC TGTCACAGTC AAGGTGGGTA TAATTATGTT 120
TAATTTATTG AAGTGTTTCT GGCATCGTC TTTTCAAAT TCATATATNC TATCCAGAAG 180

55

ANGTGNATTC ATNNNCATT ATNAAAAAAN ATAAAAATATT ACCAGATAAA GCTCANCAC 240
NCNCTCTNCC CCN 253

5 SEQ ID NO:6456
SEQUENCE LENGTH:44
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07623
10 SEQUENCE DESCRIPTION:
GATCTTTCCT ATCAGTGTA TAAAAACTCA TATTATGGCA GAAA 44

15 SEQ ID NO:6457
SEQUENCE LENGTH:320
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07624
SEQUENCE DESCRIPTION:
20 GATCAGGCAG GGTGCCATTN ATTGTCTTTC TCTCCTAGCC CCCTCAGGAA AGAAGGACTA 60
TATTGTACT GTACCTTAGG GGTTCCTGGAA GGGAAAACAT GGAATCAGGA TTCTATAGAC 120
TGATAGGCC TATCCACAAG GGCCATGACT GGGAAAAGGT ATGGNAGCAG AAGGAGAATT 180
GGGATTNAG GGTGCAGCTA CGCTCACCCT AAACCTTTGG TGGCCTGGGG TATGTCTTGA 240
25 GGCCAGACT GTTAAGCAGG CTCTGCTGGC CTGTTTACTC GTCACCACCT CTGCACCTGC 300
TGTCTTGAGA CTCCATCCGN 320

SEQ ID NO:6458
SEQUENCE LENGTH:179
30 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07625
SEQUENCE DESCRIPTION:
35 GATCCAAATN AGAACAGATT GGTATTGCA GGTATCACAG CCTAAAGAAA TTATCTTTTT 60
GCAAAAGAAA TATTAAATGA TTTAGCAGTC TCCACGTGTG TTAATGTTTC AAACGTGTAT 120
CATAATGTGT ATAATTGTGT AACAAAATTG TCTACAATAA ATCTNTTGGT ATTTGTAAA 179

40 SEQ ID NO:6459
SEQUENCE LENGTH:337
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07626
45 SEQUENCE DESCRIPTION:
GATCCATTCTG CCCAAGGGG ACAACGGGGT GTNAGNGGAG TAAGGGGTGG AGGTAGGGGC 60
CAGAGGGGCT TACACGATAT CCCATACCTT TAATGCCTTT GGCCTTCCAT TCTNATTTCN 120
CTNATGAGAA TATTGCTGGC CCTGCTTTCC CTGGTAGGTA TTTGCCAGGC CCAATGCTTT 180
AACCTTAAGC TGATACTTTG CTTTAGATGT CAGTCTCGTT ACCAGCAGCC TTTTGACCCA 240
50 ACTACGGGCGC TCTATATTTA AGTNGAGGGA TTTTNANCCA TTGTGCATGG NAAAAAGNTG 300

55

TTCATGGGTA CNATNGTAAG NAAANNTAAA ANTTTTN

337

SEQ ID NO:6460

SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07627

SEQUENCE DESCRIPTION:

GATCGGTTGN GNCATGGAGT GGGGGCTTCC AGGTGGACCT NCCCGGCACA CATTCCATT 60
NTTGAGCCCC AGTCCTGCCC CCCACCCNAC CCTCCCTACC N 101

SEQ ID NO:6461

SEQUENCE LENGTH:138

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07628

SEQUENCE DESCRIPTION:

GATCCTTCTT GGTAGTATT ACTTGTNCCG GAGCAATTCT NATTCCTCGT TTAGACATTG 60
NNATTTCTT CGTTGGAGCT GTGAGCAGCA GCACATTGGC CCTAATCTG CCACCTTTGG 120
TNGAAATNCT TACATTTN 138

SEQ ID NO:6462

SEQUENCE LENGTH:172

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07629

SEQUENCE DESCRIPTION:

GATCTNATTA GNNTAGTAAT GTTTTCCCTT TAAACAGATT CATCATTATC CCTAAAGTAT 60
TGCTGTATTA ATACTGTCTT CTAGAAAGTA TACACCAGTN CCTACTTTCC TCCGATATCA 120
TTAGCTGTTT TCNGAAACTN AATTTCTCT TCAGAGATTN CTCATATGTN TN 172

SEQ ID NO:6463

SEQUENCE LENGTH:239

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07630

SEQUENCE DESCRIPTION:

GATCCACAGA GTTCATAGGC ATGATTAAAT GGTAGTAGTT TTCCACCACG AAGTTTGGGA 60
ATAATTTGTC ACAAAGCAAT ANGGAATTA GAAAAATAAC CTTTCAGAAG GAGACAGTTT 120
CTCCAAAGCT TGGGTACTTT CGCTTAATAT TAAANAGTGG ANGGAATTT TTNCCTGCCA 180
GNCAAAAGGC AGNAGGTGTA TTTCTACACC ATGGNTAGGC AANTNNTTT TTNCCTAN 239

SEQ ID NO:6464

SEQUENCE LENGTH:213

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07631

SEQUENCE DESCRIPTION:

5 GATCTGCATT TAGCAATGTG ATGTCAGTAA ATGGACATAA CAGGATTGTT GTAAAGGTTG 60
GGCATGATGT ATGCAAAGTA CTGGCCAGGG TAGACTAATA ACTGATGGCA TTTATATGCT 120
GTGCTGGAAT ATTGTTACCA AGCTGATGTG CCGTTCTCAC CCNGGGNGAA TACTGGTTTT 180
GTCATTTTCAAT AAATGATATT TTTATAANTA AAA 213

10 SEQ ID NO:6465

SEQUENCE LENGTH:329

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15 CLONE:HUMGS07632

SEQUENCE DESCRIPTION:

20 GATCTGGCCA AGAATGAGGC CCTCCCAACA CTTTCACTCC CTCTCCAAGC CTTGATGGGA 60
CCTCCACTTA TTTAGGCCTN ATGTGCTTTG AAGAAGCTTT GAGAGCCAAT NTGTCTTCCA 120
CGGGTCTCTT TTTTGCTACA AGTAATCAGC CCCATGTNTT CTCTTAACT GAGAATTGCA 180
CCGGGGGCAA TTCCTGTTTT CTAAGGTGGT CTCTGCTGCT ATTTAACAAC CCAGAGTAGG 240
CCTCTGTNAG GCTTCAGTGG CCTCAGAAAC CAGAGGGTCC AGATAGGGGG CCTGCTTGGG 300
CCCTCTGCTG NCAAACTGCT TAAAANTTN 329

25 SEQ ID NO:6466

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30 CLONE:HUMGS07633

SEQUENCE DESCRIPTION:

35 GATCCACGTG TGTGGCCATA TTGTAACACA TTTTCTGCA AATNACCTCT TTCATTTAAC 60
AGCCCTTATT CAATGGCCTT TTNCTTTTTT AGTAGTACAT ACACATCTGT GTCATTNGTT 120
GAATGACGNC ATGAATGTTT TGTAGATAAA ATATAATTAA ANGNTTTTAA GCATTTCTNA 180
CTCATAGATA TTNATGTTAG CACCAAATTT GNTGTGCAAT GANCCTCCCT ANATAN 236

SEQ ID NO:6467

SEQUENCE LENGTH:239

SEQUENCE TYPE:nucleic acid

40 TOPOLOGY:linear

CLONE:HUMGS07634

SEQUENCE DESCRIPTION:

45 GATCTATGCC TTAGTGTGTT TTTTNTTGTC TGCTTTGATG TAAAAGCAAG AGTATTTGGA 60
GCAAGAAGCT GCAATGCGCC AAATACACAN TAGGCCTTTC NTTTATCATT CATACGACAT 120
TTCTGGTTTA GGTGTATGTA GTTGGGCCAT GTTACTTGTC CAGAGGAAGA GNCTAAAGAT 180
ATACGGNTAA TTTTITAGTC CNTAATGCTG TTTTGNTTAC NTNCTNTCAN GGTTATTTN 239

SEQ ID NO:6468

50 SEQUENCE LENGTH:82

55

SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07635
 SEQUENCE DESCRIPTION:
 GATCGAGCAA TTGCAATCCA GCCTGGGCAA CAGAGCGAGA CTCCATTTC AAAAAAGAAT 60
 CAATAAAAAT GTTAAAGCA AA 82

SEQ ID NO:6469
 SEQUENCE LENGTH:348
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07636
 SEQUENCE DESCRIPTION:
 GATCCGTAAG GCCATGACCA AGGAGGCCAT CCGAGAGCAC CAGATGGCCC GCACTGGCCG 60
 CACGAGACAG ACCTGTTTAC CTGCGGCAAG TGCAGGAAAA AGAACTGCAC CTACACACAG 120
 GTGCAGACCC GCAGCTCTGA TGAGCCCATG ACCACCTTTN TTGTCTGCAA CGAGTGTGGA 180
 AACCCTGGA AGTTCTGCTG ACCCCTTGTG TAGATGTGCT GCAGCCTTNG GCCTTCNCGG 240
 GCCACGTTCT TCGTTGACAN AGGTTNTNTT GGGGNCCCCT AGGAAGGCCG TATGTNCCTN 300
 GCCNTTNAAN CTGNCTGGN TTGGATTGNA NCTTTTTTGN CCTTTTTN 348

SEQ ID NO:6470
 SEQUENCE LENGTH:178
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07637
 SEQUENCE DESCRIPTION:
 GATCGTGAAA TCTAAGGCTG CTTGATGTTT TGATGCTTGT NAATGCCGTC GTGCTCTGTG 60
 ACTCCACGAA ACGCCAAGGA GCTTCTTCCG GACGNCTCCT CTTCCTCTGT AACATACGTG 120
 TGAATAGTCA AGGTTTAATT TTNCTTTAAT CTAATAAAGT CGAAGTGGGA CTNTTAAA 178

SEQ ID NO:6471
 SEQUENCE LENGTH:50
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07638
 SEQUENCE DESCRIPTION:
 GATCCAGCAC ACCTCCTCGG TTTTTTTTTC AATAAAAGTT TAGAAAGAAA 50

SEQ ID NO:6472
 SEQUENCE LENGTH:108
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07639
 SEQUENCE DESCRIPTION:
 GATCTCTGTG AAACAAAATN AAGCAAGAAC GGAGACGCTG AATAGTTTTA TTTCTNTATT 60

AGAAACTGTG ATTGGAACAA TTGAAGAAAT AAAATCATAA CAGAGAAA

108

5

SEQ ID NO:6473

SEQUENCE LENGTH:210

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07640

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SEQUENCE DESCRIPTION:

GATCTGAAGA AAGCAGCAAT ATCTGTNACT AGAGAACATT CCCATGTTTT TAAACTCTTC 60

ANTTCTTAGA TGCATTAAAN TTCTTAATGC AAATNACGTA GCAATTTGAA AACTTCTCCG 120

TATTACTNGT GTTTAAAATG TCTTGCTTTA AATACAANNC AAATGGTAAA GGGGATTATC 180

15

TTTGGTTTAG ATGGTTAANT ATNATTTNGN

210

SEQ ID NO:6474

SEQUENCE LENGTH:307

SEQUENCE TYPE:nucleic acid

20

TOPOLOGY:linear

CLONE:HUMGS07641

SEQUENCE DESCRIPTION:

GATCAGCAGG ACTGTCTCCA GCACGGAGCT GACACTGTTC AGCTGCCTCA ACTGGTAGAC 60

25

GCTCCCAAGA AGTCAGAGGC AGCNGTCGGG GCGGAGGTGT CCATNACCTC CCCAGGACAG 120

AGCAAAAAC TCTCCCTCAA GAACAGAAAC GTTTTACCNN CTATTGTATG ACCTTTGCTG 180

AGGGTATGTC CTGCTCCTTT CCACCAGTGA TTTGTATTAA GNCAGCACTT ATATTGTACA 240

ATACTTCAGN CTGTTTTTTT TAAATACATA AAACTTTATG TTAaaaaact CTATTANCAT 300

GGGCAAA

307

30

SEQ ID NO:6475

SEQUENCE LENGTH:140

SEQUENCE TYPE:nucleic acid

35

TOPOLOGY:linear

CLONE:HUMGS07642

SEQUENCE DESCRIPTION:

GATCACAGGT TAGGGGTTTC TCTAGATGGG GGTTCGAAA TTTGCAGTGT CTGCTCCTGG 60

GAGGCAGCAC CAGAAAGGGC ACTGAAATGT ACTAGCTGGA TGTNACCCAG TCTTAATAAN 120

40

CAGGTTTTCT AATCCAGAAA

140

SEQ ID NO:6476

SEQUENCE LENGTH:187

SEQUENCE TYPE:nucleic acid

45

TOPOLOGY:linear

CLONE:HUMGS07643

SEQUENCE DESCRIPTION:

GATCAACTTT GTATATTCAC GTGTATTAAA ATATTGTGCA CTAAATGTTT TGCCCTTGTT 60

50

TGCTATTATA TGGTCAAGGC ATTTATCAGC ACTATTGTAA TGAATCATG TAAGTGGCAT 120

GGGTCAGGGA AAATTATTC CTACTTNCCT GCCTAATTAA ATTNCGTGTT TCCAGTATTA 180

55

CATTAAA

187

SEQ ID NO:6477

SEQUENCE LENGTH:113

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07644

SEQUENCE DESCRIPTION:

GATCTTGAT ATTTNATTTT TAAAAAATA GAATAAACAG AGAGGCATAA NCATATCTTA 60
 GAGTCCAAGT GGTAGTGTTC AGCATTGGAT ATAATAAATG GATGTTTTAC AAA 113

SEQ ID NO:6478

SEQUENCE LENGTH:276

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07645

SEQUENCE DESCRIPTION:

GATCTCATT TGGGCTAAAA TAAGACAATA TTCAAAGGTC AGAGATATCT AGCCAGAATC 60
 TNATGGAGGC TGGATTTCAG ATTTTNTNAC AGAATTAGAC AGAGGAACAC AGAGGGGACA 120
 GGCTCAGTTA GGGTGGAGGT GTGGGGTAGG GAAGCAGGNC TTGATATAAN TNATTGGAAT 180
 CATTGTCTTT TAANCCAGTG GTTTATGTCA GGGTATAGCG TTTCANGGGA TTTGAGGGTC 240
 AGATGGGGNA ATGTAGCCTC TTATTTTGCC AGTGTN 276

SEQ ID NO:6479

SEQUENCE LENGTH:160

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07646

SEQUENCE DESCRIPTION:

GATCTGTCAC TGNTCCCGT CACGCCTTGA TGGGACCGTC TAGTTGCTGG AAAACAACT 60
 CAGGGCTCCC ACTGATTCTA CATTATGGTG TGTGTACAA TTATTCATT ATATATNACA 120
 AGGTAATANT AATAGANATA AAATCCACAG TAANTGCAAA 160

SEQ ID NO:6480

SEQUENCE LENGTH:158

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07647

SEQUENCE DESCRIPTION:

GATCATAAGT NNTAGGACCA AAGGTGTTTT TAATGAGATA ATCTTTTNA TTTNNTAACA 60
 AGAAAGGAAA TATTCACCTT ACATTTTAAC ATCAACTTTT AAGTGATATT CAGANTTAAT 120
 TGACCATGGT GATACGTTGT AAAANGTTN CATATTAN 158

SEQ ID NO:6481

SEQUENCE LENGTH:112

EP 0 679 716 A1

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07648

SEQUENCE DESCRIPTION:

GATCCAAAAA AAAAAAAAAAC GAANANAATT NATCCTCACA AATTGGTGTT CTAAATATCT 60
TAAGANCCTA ATTAATAGC TGA CTACAAA AAAAAAAAAA AAAATNCAAA AN 112

SEQ ID NO:6482

SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07649

SEQUENCE DESCRIPTION:

GATCCTGTGT GGCCGGTGTT TGCATCTTCA GTGGCCACAA GCATAATAAA GCCCCTTTGC 60
CTTCTCTGT ATTATATTCA ATACAATACA TCAATAGTCT TGAAA 105

SEQ ID NO:6483

SEQUENCE LENGTH:252

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07650

SEQUENCE DESCRIPTION:

GATCAGATTT AAAGNCTGGA TTCTATCTAC ATAAGTCCTT TNAATTCCAC CAGGGCCAGA 60
GCAGCTCCAC CACTGTGCAC TTAGCCATGA TGGCAACAGA AACCAAGAGA CACAATTACG 120
CAGGTATTTA GAAGCAGNGG GNCAACCAGA AGGCCCTTAA CTNTCACCAG TGCATCACAT 180
CTGCACACTC TCTTCTCCAT TCCCTAGCAG GGGNGGCTAG CTCATTNAC NGGGTNNAGA 240
ANCTGAGGNC CN 252

SEQ ID NO:6484

SEQUENCE LENGTH:36

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07651

SEQUENCE DESCRIPTION:

GATCACGNGT AAAGAGAACT GTTTCCTGCC CTTAAA 36

SEQ ID NO:6485

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07652

SEQUENCE DESCRIPTION:

GATCAGCCTC ATCAATATTG CCGTCATCTG TTAACTCTC CCAGTATATT TCCTCAATGT 60
CTGTTTACTT AAAATTTTGT GGAGTGACAT AATTAATAAG NAATAAAGTC TGAATTATAC 120
ACAAA 125

EP 0 679 716 A1

SEQ ID NO:6486

SEQUENCE LENGTH:128

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07653

SEQUENCE DESCRIPTION:

GATCCACACT GGGGNGAAGC CTTATNAGTG TACGANATGT GGGAAAGAGCT TCAGTCAGCA 60
TGCGGGCCTC ANCTCCCACC AGAGACTCCA CACCGGNGAG AAGCCATATA AGTGTAAAGN 120
GTGTGGGN 128

SEQ ID NO:6487

SEQUENCE LENGTH:329

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07655

SEQUENCE DESCRIPTION:

GATCCAGAGA GCTTCCTGAA GGACCTGTTG AACTCAGTCC CCTGACCACC ACACAGCAGC 60
TGCGGCGGCG AAGAGAAGCT GGCTTGCCTT CCACCCCTCTG TTCTCCCTCC TTGTGCATTA 120
AGTTCCCTCC GNGGGATGCT GCATTGGTAC CCAGCCCTCC NCTATCTCAT TTTTCTTGGN 180
GTGGCTTGGG GTTTTTAGGC TTCCNGTTTT ATCTCGTGTG TGTGGTGCAC CAGCTATGAG 240
GTTGTCTGTA ANCAAGCCA TCAAAGGGNC TNTAAATANC TAGGNGCCAT GAGTNGTCCC 300
GGNCANCTTT CANAACTTGA GTNTGANAN 329

SEQ ID NO:6488

SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07656

SEQUENCE DESCRIPTION:

GATCTGTACT GTAATTTTGT TTGTAATCCT GTATATNATG GTGTAATGCA CAATTTAGAA 60
AACATTCATC CAGTTGCAAT AAAATAGTAT TGAAAGTGAA A 101

SEQ ID NO:6489

SEQUENCE LENGTH:215

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07657

SEQUENCE DESCRIPTION:

GATCATGTAT ATAATTGTAA CATCACATTG ATTTTACGGA AGATGTTATA TGGNCTTTAA 60
TGACACAATG TTTAGNGATA AAATGTACAT TATTTTGGTT CAGTTTTTTA AAAAANNTAT 120
GCTTTAACAA AATTCTTAGG AATNCTTTTA AGCAATGCAG GTATTGCGAT ANCTGTAGNT 180
TTTACAATAA TGTTACTCTA CAGNTGGGAN AATNN 215

SEQ ID NO:6490

SEQUENCE LENGTH:364

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07658

SEQUENCE DESCRIPTION:

GATCTCTTTG TATTCTCTTC AAGCCCAAAC CAATTCTGTN CCTTCAATCT AAATAGTGGT 60
 AATATGAATG TTAAAGAAAT GAAATAAGAA ACATGTGCAG GCACTTTGGA AGGTGCTAAG 120
 TGA CTGCCCT AAGGAATGAA AAGCAAGGGC CAGGTGGGAG TAGCCAGCG AAGGCACTTG 180
 GGCTGCCAGG AACAGGNGGC GTGGGAAACT CTGGCTTAGG NAAACATGAA CACNGGGGCA 240
 ACAGCGGCAN ACTGTTGTTC GAGTTAAATC TAANTCTCAG GCTCTTNAC GGTAAANGG 300
 TTANGGATAC TCCATTNNGA TGAAGANAAG NGTGAGGCTG ANNGTAANGC ACATGGCAGN 360
 TNNN 364

SEQ ID NO:6491

SEQUENCE LENGTH:85

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07659

SEQUENCE DESCRIPTION:

GATCTTTCTT CTCCTTAAAG CTCTTTGTTA ACATTCTCT AGACGCAATT TATTGAAAAT 60
 AAAGATTNC TGTTTACTCA TGA 85

SEQ ID NO:6492

SEQUENCE LENGTH:122

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07660

SEQUENCE DESCRIPTION:

GATCCTCATT TATGTTTGTA GTTGGAAAGC AAAGCTAGGT AGCCATTCT TCTGTTCTAC 60
 CAAGTTATAA TAGCATTAT TCCCTTTAT ATTTCCCTGA AATAAGCAC ATTCCACTTA 120
 AA 122

SEQ ID NO:6493

SEQUENCE LENGTH:362

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07661

SEQUENCE DESCRIPTION:

GATCCTACAT TAAGGTCATT TGTNAGAATG ATGTTTGTGT TTGNTAGAG TTGGCTGACC 60
 TCCAACNT GGGGTCAAGG AATCCTACTG CCTNAGCTTC CCAAATAGCT AGGACTATAG 120
 GCATGCACCC GGCCATGTGT TTTATTTATA GCTCTTAAAG CCCAGATGAA GAAATCACAT 180
 TTTNCCCAT AGTGAAGAAA CATTGGCCA TTGCTTAGTC CTTNNGGGG GTGNTGTCC 240
 TGTTTTCATT AGATTAGNGA GACCCTGTGT GGGCCACAGT TAATATANNC CATTATCACT 300
 TTTAAGGTAA CCTGCACATC TTAGGTTTCA TAATTNCCTT ATTGTTCTNG NCTCAAANT 360
 GN 362

SEQ ID NO:6494

SEQUENCE LENGTH:328

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07663

SEQUENCE DESCRIPTION:

GATCGGGGCA CTGCAGGGGC CGAGCCATT TGGGGGGCCC CCCTCCTTGC TCTGCAGGCA 60
 CCTTAGTGGC TTTTTCCTC CTGTGTACAG GGAAGAGAGG GGTACATTTC CCTGTNCTGA 120
 CGGAAGCCAA CTGGGCTTTC CCGGACTGCA AGCAGGGCTC TGCCCANAGG CCTCTCTCTC 180
 CGTCGTGGGA GAGAGACGTG TACATAGTGT AGGTCAGCGT GCTTAGCCTC CTNACCTGAG 240
 GCTCCTGTGC TACTTTGCCT TTGTCANACT TTATTTTCAT AGATTGAGAA GTTTTNTACA 300
 GAGANTTAAA AATGNAATTA TTTNTAAA 328

SEQ ID NO:6495

SEQUENCE LENGTH:351

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07664

SEQUENCE DESCRIPTION:

GATCCTGTTT CTACCAACAC TGCACCTTAT CCCAGGAACC TGCCCTAGAC CTCCAGAGAC 60
 CATATTNNT CTCCTCCAT TTCTACCCAG ACCTCCAGGC CTCCTTCTGG AATNATAGAA 120
 CCGTAGAATT GGAAGGAATT TNAGAGGGGN TCTAGTTGGA GTTGTGTCCA ACAGAATTCA 180
 TTAACACCAG CCTGGGCTTG TTTTTCCTCC TCCCTCTGGA CTTTTTTAAT CTTTTCCTCC 240
 ACCTCAAAAA ATACTTACAC ACAGATTCTT CTTGTACAGG CATCAAAACC AACTNCTNTG 300
 CCCCTAAGGC TGTGTNNGNG TGGTNTCCAG NNANCCNTAC CNCAGTCANT N 351

SEQ ID NO:6496

SEQUENCE LENGTH:122

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07665

SEQUENCE DESCRIPTION:

GATCTGGTAG GGGAGAAATG GCGAATGTAA TACACATGAN ATGGTATATC CTTGCAATGT 60
 ACAGTATCAG AAGGTGGTTT GACAGCATCA TAAACAGGCT GACTGGCAGG AATGAAAACA 120
 AA 122

SEQ ID NO:6497

SEQUENCE LENGTH:227

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07666

SEQUENCE DESCRIPTION:

GATCANTTGC AAACCTCCCC CAGCCCTAC CATCCAATNT GGACGGAAAA CANGAACTGC 60
 CTGAAGAAGA GTCCAAGCTA CAGATACACA GCGTGTGCAT TGCGGCTGTC ACCTTCCTNC 120

TNCCACTTCT GTATCCTCAG AGATGCTGCG TGGATGTTTC CTTANCCCTCA GCTGACTTCC 180
CTGTGAATNT CTAATGCTAG TTCANGGGCC TNCNGGAAAT TGANTTN 227

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SEQ ID NO:6498
SEQUENCE LENGTH:238
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS07667

SEQUENCE DESCRIPTION:

15

GATCTTGCCC TTCTCACTCC AGAGGCTAGT GGTACACAGAC AGCTGGGAAT GGCAGCCACA 60
GAGGGTCCCC TCTGGGAGAA ACAGCTTCAC CCCAGCCTCA GGGCCCTGGG CCATCACTGC 120
AGTGGCCCTG GGAGGTGAGG AAGAAGCTGG CTAGAGGAGG GGGCTCCAC CTACCTTTTA 180
TTTAAGCCAG TATTCTTGT TCCTGCTTGT AATAAACTT CAGTTTATAA GAGTTAAA 238

SEQ ID NO:6499
SEQUENCE LENGTH:142
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

20

CLONE:HUMGS07668

SEQUENCE DESCRIPTION:

25

GATCTGTCAT AACTCATTTT AAACGTGTGAA ATATGCCATA TGAAGAGGGN TTAAGAGGCT 60
GNGAAACTCA TATTCAACC AAATCCAGCA TTAGTTTTTC TTAGGTCTAA TANTTCCTNG 120
TTAATAAAGA TTTAAATGCA AA 142

SEQ ID NO:6500
SEQUENCE LENGTH:160
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

30

CLONE:HUMGS07669

SEQUENCE DESCRIPTION:

35

GATCTGTCAT TGTCTCCCAT CACCCCCAAA TGGGCCCTC TCGTTGCAGG AAAACAAGCT 60
CAGGGCTCCC ACAGTTTCTA CATTATGGTG AGTTGTATAA TTNTTTCATT ATATATTACA 120
ATGTAATAAT AATAGAAATA ANGACACAA TNNNTGTAAA 160

SEQ ID NO:6501
SEQUENCE LENGTH:266
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

40

CLONE:HUMGS07670

SEQUENCE DESCRIPTION:

45

GATCTGCCCC AGACTCCCAG AGGGTAATGC CACTCCCACA ATCTCAGGCC TGGTACCCAT 60
CCTNTTCCA CTGTGAGCAG AGCCAGAAGG TAGGTCTNTT CAGAGTCTGT NNCCCTGGAC 120
CTGGGGNGTG GATATGANAT GGGATATCTC CTTCCATTCC CCGNTCCAGG GGAGAGTCAC 180
TAGTTGTACC CTACTCCATT AGGTCCCAA TAGGGGCCCA ATTCACCTG TATNAGGNTC 240
TGTGCATNCC AGCTGCCNNA AATNTN 266

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EP 0 679 716 A1

SEQ ID NO:6502
 SEQUENCE LENGTH:119
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07671
 SEQUENCE DESCRIPTION:
 GATCCAGACT TAGGGACGAG GCTGTCACTG GTGGGCACCC TCTGTTCTG TTTGTGTGTT 60
 TGAATAGTCT GAAATNCTGT GACTTTTTTT GTGTGAATAA AGNTATGAAA CTTCTGAAA 119

SEQ ID NO:6503
 SEQUENCE LENGTH:90
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07672
 SEQUENCE DESCRIPTION:
 GATCTTCGTG TGAGCCGCGN CGTCCGNCGN GACCGAGCTG CCTTCGCGTG CCCCCGNCCT 60
 GTGTTTTATA AAAAGAAAGA TTCTCGGAAA 90

SEQ ID NO:6504
 SEQUENCE LENGTH:62
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07673
 SEQUENCE DESCRIPTION:
 GATCTGTGAG TGTATCAAAA CAACATAAAT AAAGTTGAAC AACTGATACG CAAAAAACA 60
 AA 62

SEQ ID NO:6505
 SEQUENCE LENGTH:72
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07674
 SEQUENCE DESCRIPTION:
 GATCAAGTTT GGTCAGGTTT TGTCACCAAG CTTTGTAAT AAAGTGGTTT TCATAGCTTT 60
 TTGGAGATGA AA 72

SEQ ID NO:6506
 SEQUENCE LENGTH:221
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07675
 SEQUENCE DESCRIPTION:
 GATCTTTTTT CAGAAATGTTG GAAATCCTG TAAATGCAAA TAGTCAATAC TGTATTAAAT 60
 ACGTGCACTT GGNGTNTGCT TCGCTTGAC AGTTGTAAAT AATCAGAACA TATGNAAAAG 120

EP 0 679 716 A1

GTACCCTACA GAGGAAATTC TGATACAGAT TATTGCTATA TTATAACCTN TTGCTGTTGA 180
GCGGGCTGTA GGTAANCTAA TGTGTGGTT TGAATATTAA A 221

5 SEQ ID NO:6507
SEQUENCE LENGTH:42
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07676
10 SEQUENCE DESCRIPTION:
GATCTTCATT TTTGTAATAA AACGGNAGAC TCATCCAGTA AA 42

15 SEQ ID NO:6508
SEQUENCE LENGTH:62
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07677
SEQUENCE DESCRIPTION:
20 GATCTTAGAC TTCCATCCT CTAGAACTGT GAGAAATAA TTCCTGTTGT TTATGAGCCA 60
AA 62

25 SEQ ID NO:6509
SEQUENCE LENGTH:117
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07678
SEQUENCE DESCRIPTION:
30 GATCTGCCAT CTAGAACTCA TATTCTAAAG GGCAGTGNTT TCTCAGAACA GTGATGTTCT 60
GGAATATGTA TTATTTATTT TAACACTTTT TTAATAAANT CTTTATTATA AACCAAAA 117

35 SEQ ID NO:6510
SEQUENCE LENGTH:113
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07679
SEQUENCE DESCRIPTION:
40 GATCTGTTTA AAAGATTAAA TCTCAAGTTA ATTAAAAATA AGCTTTTCAA AAATGTATTA 60
TATTTATAAC AAATATACTG TAAATAGANT AAAGACATGC TATTCAGTGT AAA 113

45 SEQ ID NO:6511
SEQUENCE LENGTH:159
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07680
SEQUENCE DESCRIPTION:
50 GATCTGTCAC TGTCTCCCAT CACCCTAAGA TGGGNCCTGTC TAGTTGCAGG GAAAGAAGCT 60

55

EP 0 679 716 A1

CAGGGCTCCC ACTGATTCTA CATTATGGTG ANTNGTAGNA TTATTTTATT ATATATTACA 120
ATGTCAATAA TAGAAATAAN GTGTGCANTA AATGTCAAA 159

5 SEQ ID NO:6512
SEQUENCE LENGTH:219
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07681

10 SEQUENCE DESCRIPTION:
GATCAGCCGG AAGAGAAAAT NAAGACCCCA GAGACATTTA TTGGGGAGTA GGATGTGGCT 60
GAGTGTCTTT TTTTGGCCA GACTAGCGGA TTCAGTCCTG GAAGAGAGTA TCATATAATG 120
AGNCCACAG GCACTGGCAC CCTTGGGTTG GNAATAGANG NNGNCCATGG ANTGGCGAAA 180
15 ACCAGGGATT CCAGCTGGGG NATAGTANCT TGAAGGTGN 219

SEQ ID NO:6513
SEQUENCE LENGTH:217
SEQUENCE TYPE:nucleic acid
20 TOPOLOGY:linear
CLONE:HUMGS07682

SEQUENCE DESCRIPTION:
GATCTTGACC TACAGTTTGA AAAACAGAGT ACTGAAGAGT CTTGTTTCCT TTATTTAGAA 60
25 CAGTGCAAGG ATGAGTATCT GGGTAGAGTT GTGCGTTGTA CATAACCTTT GATAGTCATA 120
TAGTTGAACC AAAAGCAANN TCTGTAGTGN CATTGAAAAA ACATTTTGAC TTGATTATC 180
CTGNCAGNNT NCNNTAATTT TTGGCTGGCT AATNCAN 217

30 SEQ ID NO:6514
SEQUENCE LENGTH:119
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07683

35 SEQUENCE DESCRIPTION:
GATCTCTGCT CACGTTGCCT CCCTTCATCT TCCTGCATAA GTGGAAGCAG CCTGAAGCCC 60
TCACTGTTTC TTGTACAGCC TGCAGAGCCG TGAGCCAAAT AAAGCTCTTT TCTTTTAAA 119

40 SEQ ID NO:6515
SEQUENCE LENGTH:173
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07684

45 SEQUENCE DESCRIPTION:
GATCTGATGG TTTTATAAGC ATCTGGCATT TCCCCTGCTT GCACTCACTC TGTCCTGGTG 60
CGCTGTGAAG AAGGTGCCTG CTTCTCCTTT GCCTTCCACC ATGATTGTAA GTTTCCTGAG 120
GCCTCCCTGG CAATGCAGAA CTGTGAGTCA ATTAACTTC TTTTCTTTAT AAA 173

50 SEQ ID NO:6516

55

SEQUENCE LENGTH:238

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07686

SEQUENCE DESCRIPTION:

GATCACCATG TNAGCCTTAG ACCAAGAAGC TGGCTAGTCC TTNCTGTGAA GCTAATACAA 60
TNGNCATTTT CAGACAAATT TAAAGGNAAC ACTAAGGCTG CTTCAAAGAT TATCTGATTG 120
CTTTAAAATA TATGTCTATA TACACAGGCA TGCTCTTTTT TTAAGTGCTT ACATTTTAAT 180
AGAGATGANT CAGTTTTNGA ATCTANGCTG TTTGCCCAAG NTGANGCTNC CAGGGTTN 238

SEQ ID NO:6517

SEQUENCE LENGTH:289

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07687

SEQUENCE DESCRIPTION:

GATCTGTTTT TNACCACTTC ACTGAAAGAC ACCATTTATC TACCCAAGGG CAGAAAGTAG 60
AACTTACTAT TCATTAAATG TTTGACACAA TTGGAATTGT CTTTAATTTT TGTCAGAATG 120
CTATTGAAAA TGTGAATTGC ATGACTTGGT AGCATATTCT TTTCTGCAA AAATAGGCCA 180
TATTAACCAT GCTTATGACC ANTGNCCTGT GCTACTGGCT TTTGNNAAAA ATGGTTTGCN 240
TCAGNTTGGG GAAGTAATNA AAGGANTNCA CCTGGNGNCC CNNGAATAN 289

SEQ ID NO:6518

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07688

SEQUENCE DESCRIPTION:

GATCCCCCAG GATTCTATTN TGTTTAATGG GCTTTTCTAC TAAAAGCATA AAATACTGAG 60
GCTGATTTAG TCAGGGCAAA ACCATNNACT TTACATATTC GTTTTCAATA CTTGCTGTTC 120
ATGTTACACA AGCTTCTTAC GGTTTTCTTG TAACAATAAA TTTTTGNGT AAATANTGGG 180
TACATTNTAA CAAACTCNGT AGTNCAACCT AACTNGTAT NAACGGTGTG TAAAAA 236

SEQ ID NO:6519

SEQUENCE LENGTH:157

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07689

SEQUENCE DESCRIPTION:

GATCAGGTCT GCTTTNAGTT TCATTTTTGT TTCTTTCCCG TCCCACTCTT TAAAACTGG 60
TTCCGTGAGA AANGGCAGAA GCCGTTCCGT GTCTCTTGCA GGCTGGGCCG NCTTCATGNA 120
GTNCGAGGGC GTNCCGTGAC NACGTACATA CGTATGN 157

SEQ ID NO:6520

SEQUENCE LENGTH:195

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07690

SEQUENCE DESCRIPTION:

GATCTTTCTG GATATAATGA AGCTTCCTGG AGAAACAGAC TGGCAATCAG AAAGATTGG 60
CTGCTTCCGA CACCTCCATC TTGGGCCTGC AGAGGCTGCA GCAATCTGTG AGGCAGCCGA 120
ATCTGCGNGG CAGNCCACTC TTCTAGGACA TATGGGTTTC ANNAGGCACC NTTTTGCTAN 180
GNAGGCATAN TTANN 195

SEQ ID NO:6521

SEQUENCE LENGTH:337

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07691

SEQUENCE DESCRIPTION:

GATCGAAACC AAGTTATTAT TATCCTTACT GTATTCCATT GCTTGTATCA AAATCTACTT 60
TTTTNCTAGT AGGAAACTAT GCATTCCCTA TCAGTCCCTT TGATTATCAG GAATGTATAA 120
GAATTGTGAT AAAATAGGCC AATATGCTAT TTGGTACCAT TTGTATGTAT TTTANGTGCA 180
TAACCTAGGT AAAATAAGNN TAGTTTCTAT GTGTAAAGAA GCAAGTTTCA CAGTATGCAG 240
ACTCCAGTGG ATGTATTTTA GGCTGTATAC ATNTTTAAGC TCTNTNTGGT ANATAGGGTA 300
TACAAACTAN NTGCCTCNNA ATNCNAATAN NTTCCGN 337

SEQ ID NO:6522

SEQUENCE LENGTH:331

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07692

SEQUENCE DESCRIPTION:

GATCATTTCA TGGAACTTTT GAAGTATCTT TGA CTCTAAC TTTGACTTGG TGGTGGACCT 60
TCCTTGTTTT TANTAACACC TAAGAGATAT CCTTTAGAAT TACATGTATT TTAGCATAAG 120
GAAATTGNAA AAGTAAACA TACTGGTTTT TTTCAACAAG ACCATATGTA AATTAAATAG 180
TGAAATGTGT ATGNGTTTCA GTAGAACTGT ACCATCAACA ATGTTTCCAT AAATATGCAG 240
NGTTCCTNCT NNTGTATTGT TATTTACAAT ATTGTAAAT NGGATGCATT TGCAATNNCT 300
CGGNTTCTAA AGNATTGNGG TNCNGANCGT N 331

SEQ ID NO:6523

SEQUENCE LENGTH:107

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07693

SEQUENCE DESCRIPTION:

GATCTGGAAT GGTGTTTTGG TTTGGGGGGA ATTTTTTTTT TTCCCGGCA AATNACATGT 60
GTTGTTGATG TGAGTATCTG ATGAAAAANC AATGNCAGAA TANCCGN 107

SEQ ID NO:6524

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07694

SEQUENCE DESCRIPTION:

GATCTATATA TGTATAAATA TGTATTTTGT CAAATTTGTN ACTTAAATAT ATAGAGACCA 60
 GTTNTCTCTG GAAGTTTGT TAAATGACAG ANCGTATAT GANTTCAAGA AAATTTAAGC 120
 TGCAAAANTG TATTTCTAT AAANTGAGNA GTCTCACTGN TAGCGGTTCT TTATTGCTCA 180
 TTTTTTAAAA ANTGGN 196

SEQ ID NO:6525

SEQUENCE LENGTH:257

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07695

SEQUENCE DESCRIPTION:

GATCGGCTCT AGAAACACTG CTTTCCTTC TTNCITTTTG TTTTCTTTCT NTTATTATTT 60
 TTTTAAAGAG TAAACGAAAG TNCTGTATGA ATTCGGACCC AGGCAGCAAC CACAGGNCNTN 120
 GGGGTGAGAC CCTCCTCCTC CCAAGNGAGC AAAAAGGACC CATGGCCCCC AAAAAAACCC 180
 CTCAACGAGA ATCCTCAGCN TTGTAAATG CAAAANTGTC TAATGAATAT TTNTATNTGT 240
 NCCATTTTTG ATAANTN 257

SEQ ID NO:6526

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07696

SEQUENCE DESCRIPTION:

GATCCTATTT AACATGACAA GTAAATGCT TGCCATAGGA TATTTATATC TAGAACTTTG 60
 ACAGACATAC CTAATCATTG TCACTCAGGC ATCCTGCATA TCATTCATTT ATTCAATTTGC 120
 CTATCATTTG TTGANCATTT AAAATGTCCT AGATACTTAG NATATGANTG TTGAATGTCA 180
 CAAAAGTAA TGTCACACTC CCTCCCTTT AGANATTTNC AGCATGGGAT GCGAGCTAAT 240
 GATATGTAAA TAANTACATA TTTNTAANTA ACACAACCNN AAAANAANAN AAACNAN 297

SEQ ID NO:6527

SEQUENCE LENGTH:137

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07697

SEQUENCE DESCRIPTION:

GATCGTGGCC AACGTGGACC TGCCTACGNA GGGTGGGCTC TGACCCAAGT GGGGCCTCCT 60
 TGTCCAGGTC TCACTGCTTT NCACCGTGGT CAGNGGGACT NTCAGCTGAG CTTNAGCTCC 120
 CATGGAGCCA GCAGGNN 137

SEQ ID NO:6528

SEQUENCE LENGTH:293

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07698

SEQUENCE DESCRIPTION:

GATCAGCCTG AGAAGCCACT CAACTTGGCT CACATCGTGC CTCCAGACC TGTAACCAGC 60
 ATGAACGACA CCCCTGTTCT CCCACTCTGT TCCCTCCTCA GGAAGTCCTT TTATTACCAG 120
 GAGCTCGGAC GGTGCTTTTG GTGGNTGCGT CTAGATGGAT AACATGACTT CTTCTACCCT 180
 AAAATATTCC TATAACTT TNAGCTGTTT TGGTTCCTCC AGGGTGNATG GTACCNATTA 240
 ACCCAAAATA CTGNTTATNT ACCCNTTNTT ACNATNTANN AGTCANTTTT GGN 293

SEQ ID NO:6529

SEQUENCE LENGTH:345

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07699

SEQUENCE DESCRIPTION:

GATCCACGGG GCCAGGCCAC CCTGCGGGAG CGCCACACGC ATCCACTTCG GATTCAGTGG 60
 GTGAAGACAG AACGCTNAGA GTCTGCAGGC GGCTCCTGTG CTTTAAATTT CTGGCTCTTC 120
 GGATGTCTTC TAGACATTTA CTATCACTGC ACCTGAAGAA AAAATCACTT TTACCTTCCT 180
 AATTAAAAA GACAAAACAG AAATGTACGT TCCTTCGCTA GCTTTAGTCT TTCTGTTCCC 240
 ATTTTNTATA ANCTGAGGC ATTGATAATG NTCNNATCTA AAATTTGTAC AGTGTGATTT 300
 CNNTNNTAAG NGTTAAANCT TTTANTAAAA GGGGCANGAN NTNAN 345

SEQ ID NO:6530

SEQUENCE LENGTH:266

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07700

SEQUENCE DESCRIPTION:

GATCCAGAAA ATAGGTACGG TTTTAAAAATA TTTNATATAG AAAAGCTACA AAGTAAATTG 60
 AGCAATGCTT TTAAAGTTAT CTTTGTTTTA TAGACTTTTT TGTGTATGT ATTACAGTCT 120
 TTATAATCTT ATTTAATGNA TATNTGTACT TTCAAGTACT GATGGAGATA GNCTCAAAAC 180
 AGTTATTTTN TTACAATTAA TCTACAANGG GCATTANTAT TGTNGNCTTT TAAAACATCT 240
 GCTGGNTATC TNATNTGCAA TTCNTN 266

SEQ ID NO:6531

SEQUENCE LENGTH:43

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07701

SEQUENCE DESCRIPTION:

GATCCACAC ACTAAATATA TGGTTGTTTT GCCACCTTTT AAA 43

SEQ ID NO:6532

EP 0 679 716 A1

SEQUENCE LENGTH:285
SEQUENCE TYPE:nucleic acid
5 TOPOLOGY:linear
CLONE:HUMGS07702
SEQUENCE DESCRIPTION:
GATCTGTTTT TCACCACTTC ACTGAAAGAC ACCATTATC TACCCAAGGG CAGAAAGTAG 60
AACTTACTAT TCATTAAATG TTTGACACAA TTGGAATTGT CTTTAATTTT TGTCAGAATG 120
10 CTATTGAAAA TGTGAATTGC ATGACTTGTA GCATATTCTT TTCTGCAAAA TAGCCATATT 180
ANCATGCTTA TGACAATGAC TGTGCTACTG TCTNTGGAAA ANTGTTTGTG TCAGTTGGNA 240
ATNCTAANNG NTTCACCTGC GGANNAACG CCCCNNNCCN CCCAN 285

SEQ ID NO:6533
15 SEQUENCE LENGTH:43
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07703
20 SEQUENCE DESCRIPTION:
GATCCTCTTG TGTATATGCA AATAAACCTA TTATTCACCT AAA 43

SEQ ID NO:6534
25 SEQUENCE LENGTH:194
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07704
SEQUENCE DESCRIPTION:
30 GATCAAGACA CCTTTTATTA ATAAAGAAGN GACACAGGTG TAGATATGTA TATACAAAAA 60
GATGTACGGT CTGGCCAAAC CACCTTCCCA GCCTTTATGC AAAAAAAGGG GAGANTCAAA 120
GCTTTCATTT CAGAAGTGT GCGTGGANAA GTATCTGTAA TTAAAGTTTC GANGTAATTT 180
AACCTATTTT TAAA 194

35 SEQ ID NO:6535
SEQUENCE LENGTH:45
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
40 CLONE:HUMGS07705
SEQUENCE DESCRIPTION:
GATCAAGCCC TGCTTAAAGT TAAATAAAAT AGAATGNATG ATAAA 45

45 SEQ ID NO:6536
SEQUENCE LENGTH:38
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07708
50 SEQUENCE DESCRIPTION:
GATCTTCTGG ATGACCTGAA ATNAGAACTA ATTGGAAA 38

55

SEQ ID NO:6537
SEQUENCE LENGTH:52
SEQUENCE TYPE:nucleic acid
5 TOPOLOGY:linear
CLONE:HUMGS07709
SEQUENCE DESCRIPTION:
GATCGCCCAA CTGCACTCCA GCCTGGNAGC AAGACTCTGT CTCGAAAAGA AA 52

10 SEQ ID NO:6538
SEQUENCE LENGTH:55
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
15 CLONE:HUMGS07710
SEQUENCE DESCRIPTION:
GATCAGNACC ACTGCACTCC AGCCTGGGCA ATCANAGTAC GACTCCTGGC TCAAA 55

20 SEQ ID NO:6539
SEQUENCE LENGTH:252
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
25 CLONE:HUMGS07711
SEQUENCE DESCRIPTION:
GATCAGTCTG AAGTCGATTA CTAACAGCTG AAGCTGATAA AACCATTAAA GTATACAGAG 60
AGGATGACAC AGCCACAGAA GAAACTCATC CAGTCAGCTG GAAACCAGAA ATTATCAAGA 120
GAAAGAGATT TTAATGAATG TGGAATTTTT TCTCTCTCTT TTTTTTCTT TTTAATTAAA 180
AAAAAAAAGG CTTGGGGTTC ATGGGGTTTT CCNGTCATTT NGTGCNCTGG CTGGGATTTT 240
30 AAGGGGGAAT TN 252

35 SEQ ID NO:6540
SEQUENCE LENGTH:48
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07712
SEQUENCE DESCRIPTION:
40 GATCGAGNCA CTACACTCCA GNCCGCCGAA GCAAGACTCT GTCTCAAA 48

45 SEQ ID NO:6541
SEQUENCE LENGTH:235
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07713
SEQUENCE DESCRIPTION:
GATCANACAT TTNCTACCTA TGAATNTTGC TGCATACAGA AAGTGCCCTT TCCTCAGGAA 60
50 GTTGCTGTGT NTCATTTCTT TAGATGGNCT CTTATCTAGA ATACATAGCA GCTCTGCAAA 120

EP 0 679 716 A1

GAANCAGTTT TAAAAATGG GAACTTCTAC ATTGAAAAGT CCCCNTTTTT GTGCCAACTA 180
TGATTAGTGN GCGGAAGNAN TCTTATTCTA TGGCATATGT ATGGANGGGG GGGGN 235

5 SEQ ID NO:6542
SEQUENCE LENGTH:36
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS07714
SEQUENCE DESCRIPTION:
GATCCTTTTA AATTAAAGC AAGTCCTAAA ATGAAA 36

15 SEQ ID NO:6543
SEQUENCE LENGTH:155
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07715
SEQUENCE DESCRIPTION:
20 GATCCAGCGN GCGCAGCGAG AGTACCTGCA CAAGGCCGTC TTCAGGGGCC TNCTCACGGA 60
GAAGNCGGCG CCCGTNATGA ACGTCATCCA CAGCATCTTC AGCCTCGTGC TCAAGTCCG 120
CAGCCAGCTN ATCTCCAGG CCTGGGGGCC CCNNN 155

25 SEQ ID NO:6544
SEQUENCE LENGTH:110
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07716
30 SEQUENCE DESCRIPTION:
GATCAAATAT CACTCTCCTA CTTACAGGAC TCAACATACT AGTCACAGCC CCTATAACTC 60
CCNCTTACAA TANNTANCCA CAACCAAAAT GGGGCTCANT CACCCAACCN 110

35 SEQ ID NO:6545
SEQUENCE LENGTH:192
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07717
40 SEQUENCE DESCRIPTION:
GATCTGGTTG TNTAGAAGCA TGCAGCACCT CCTGCTTCAC TCTCTCTGTC TCTCCTGCTC 60
CACCATGGCC AGAAACGTGC CTGCTTCCCC TTCGCCTTCT GCCGTGATTG TAAGTTTCTT 120
GAGGGCTCCC CAGCCATGCT TCCTGTACAG CCTGCAAAAC TGTGAGTCAA TTAAACCTCT 180
45 TTTNTTCATA AA 192

50 SEQ ID NO:6546
SEQUENCE LENGTH:73
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

55

EP 0 679 716 A1

CLONE:HUMGS07718

SEQUENCE DESCRIPTION:

GATCATACTG GTTTGTTTCT TATTTTGATT GGAGAAAAAT NAAATTGCTG CATTTCGCAG 60
TGACCCATTT AAA 73

SEQ ID NO:6547

SEQUENCE LENGTH:80

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07719

SEQUENCE DESCRIPTION:

GATCAAAATGT GTGGCCTTTG ACTGAAATCA GCCAGCCCAT GGCCCCCAAT AAAGGCAGCT 60
GCCTACTNCT CCNTCTGAAA 80

SEQ ID NO:6548

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07720

SEQUENCE DESCRIPTION:

GATCCANATG CGTGTGGCAG CCNAAGGATT TGTGTAGGA GCAATGNCTG TTGGTATGGG 60
CTATTCCATG TATCGGGAAT TCTGGGNAAA ANCTAAGCCT TAGAAGAAGA GATGN 115

SEQ ID NO:6549

SEQUENCE LENGTH:98

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07721

SEQUENCE DESCRIPTION:

GATCATAGCA TATCTACTAT TTTATTATTT GATTTTAAAA ATTAAACATT ATATTATGGG 60
TAACCTTACA TGTCAATAAA CAATTCCACA TTGTCAAA 98

SEQ ID NO:6550

SEQUENCE LENGTH:33

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07722

SEQUENCE DESCRIPTION:

GATCAACTTT GGAATAAAGT GATGCCCTTC AAA 33

SEQ ID NO:6551

SEQUENCE LENGTH:42

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07723

SEQUENCE DESCRIPTION:

GATCCACTGT AATATTTAAT AAAAAATGTT ACTATCTGTA AA 42

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SEQ ID NO:6552

SEQUENCE LENGTH:24

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10

CLONE:HUMGS07724

SEQUENCE DESCRIPTION:

GATCAAAATAT CACTCTCCTA CAAA 24

15

SEQ ID NO:6553

SEQUENCE LENGTH:141

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07725

20

SEQUENCE DESCRIPTION:

GATCAGGACC CTNTCAGTG CACCCANTTA GNGTTGTGAG CCCTAAAAG GACCAGGGAT 60

TGCTCACTCG GGGAGCTCG CTCTTGAGAC AGGAATCTTG CCCATTCCC GAACGAATAA 120

ACCCCTTCCT TAACTCAGAA A 141

25

SEQ ID NO:6554

SEQUENCE LENGTH:226

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30

CLONE:HUMGS07726

SEQUENCE DESCRIPTION:

GATCAGGCAG CAGGAGTGAG GGGCACAGTC ACCCCAGGCC TTGCTGAGCC CAGGTCTGGG 60

TACTGAGTGT CCAGAGCTGC CTCCTCAGGA GGTTAAGGTG GGGGCAAAGG GGAAGCTTCA 120

AGCACTTTGC CTACTTTTGT TCACTNCCCA GTGCACTGTG ACTCAGGCCT TCCCATCAGG 180

35

CCTATTTGTC TACCCAATAA AGCGTGTTTT TTCCAGAAAC AAGAAA 226

40

SEQ ID NO:6555

SEQUENCE LENGTH:46

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07727

SEQUENCE DESCRIPTION:

GATCAGCCTG GCCATGGTNA AACCCCATAT CTAGTAAAAC TACAAA 46

45

SEQ ID NO:6556

SEQUENCE LENGTH:306

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

50

CLONE:HUMGS07729

55

SEQUENCE DESCRIPTION:

5 GATCCACTAT NAGGGTGGCA TCAGCCTGAA TTGAACATCC TATATCTNAA CATCTGCATA 60
 AATTCCAGGT GACCACCACT GTGCACCACT CACCCATCCC AGTGTATTCA GGCCNNNTGA 120
 CCTGACCCAN TTTGGCCCAG AGGACTCTGC TGGTGACCTG AAAAGAGGGA CTACATATTT 180
 NAGGATATTG TTGGTCTCAC ATGACTCTTG ATAGAGTTTG CCAGCCTTCA AATCACCAAC 240
 TGTGGGAACC AAGNNGGNNN TTATTGCCTT GCTGTGTTCA ATTACANAAA ACGNTGGAAA 300
 NGGCTN 306

10 SEQ ID NO:6557

SEQUENCE LENGTH:255

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15 CLONE:HUMGS07731

SEQUENCE DESCRIPTION:

20 GATCTGAATA CCCCTTCTCT GTAGCTGCTA GTGAGCCTTC CCATTAGAT TAAAGATTGC 60
 TTTATCCAGC AGTCAATTAA CTCTCCAGTT ATCAGTACTC CCACAATTGG CCAGGGCAAC 120
 AATAATTGGA GTTCATACTG ATGCCCTGAG GCACTGAAAA AAAAAAAT TCCCAAGGNG 180
 CCTTNTGGGN TGNCTAAAGG TTNCATTGTG NTTGGNGGCT TTNGTGTTAG GTGTGCNGTT 240
 TANTTTCCTA NTTNN 255

25 SEQ ID NO:6558

SEQUENCE LENGTH:59

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07734

SEQUENCE DESCRIPTION:

30 GATCACGNCA CTGCACTCTA GCCTGGGCGA CAGAGAGAGA GACTGTCTAA AAAAGGAAA 59

35 SEQ ID NO:6559

SEQUENCE LENGTH:69

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07735

SEQUENCE DESCRIPTION:

40 GATCCTNAGG TCTCCTAGCC ATGTGGAGCT GTAAGTCCAA TNAACTTCT TTTTCTTCCC 60
 AGTCTCAAA 69

45 SEQ ID NO:6560

SEQUENCE LENGTH:53

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07736

SEQUENCE DESCRIPTION:

50 GATCTGTCAA GTCCAGTAGA GCTTCAAGGT AAAATNAAAA TAACAATGTG AAA 53

55

5 SEQ ID NO:6561
 SEQUENCE LENGTH:33
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07738
 SEQUENCE DESCRIPTION:
 GATCCAGAGG CCATGGAAGA GTCTCCAAGG AAA 33

10 SEQ ID NO:6562
 SEQUENCE LENGTH:158
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 15 CLONE:HUMGS07739
 SEQUENCE DESCRIPTION:
 GATCAGCTCA AAAAGNTTGG GCTTAGNGTT TTCATTGCAA ATNATAATTG CTGTAGAGCC 60
 ACACACAACT TTTGAACTTT TAATTATAAG TGTATGGCT AAAGTTATTN NCTGAAAATT 120
 TCAGTAAAGT GTGTGAATGT TTCTTTATGT ATTANCNN 158

20 SEQ ID NO:6563
 SEQUENCE LENGTH:121
 SEQUENCE TYPE:nucleic acid
 25 TOPOLOGY:linear
 CLONE:HUMGS07740
 SEQUENCE DESCRIPTION:
 GATCAGGGTT CTTTTTTTCC CCCATACAAG TATCCAGTCA TTGTAACACT GTTTATTGAA 60
 AGAATTATCC TTTCTCATT AAATTACCTT GCCAATTAGT AAAAAATCAA TTAACCATAA 120
 30 A 121

35 SEQ ID NO:6564
 SEQUENCE LENGTH:87
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07741
 SEQUENCE DESCRIPTION:
 GATCAGCATA CACAAATNAC AAAAGTCTGA ATTTTTTTTT ATCAAGAGGG ATAAAACACC 60
 40 ATGAAAATAA ACTTGAATAA ACTGAAA 87

45 SEQ ID NO:6565
 SEQUENCE LENGTH:54
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07742
 SEQUENCE DESCRIPTION:
 GATCCNTTTT NCTGTGGCAT TTGGTGCCCT AAAAATTTTG CATTTATCTT GAAA 54

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5 SEQ ID NO:6566
 SEQUENCE LENGTH:20
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07743
 SEQUENCE DESCRIPTION:
 GATCATTGA CAACTGCAAA 20

10 SEQ ID NO:6567
 SEQUENCE LENGTH:143
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 15 CLONE:HUMGS07744
 SEQUENCE DESCRIPTION:
 GATCGACTAT GAGACAGCAA AGGGGCCTAC CTNCTNATGG AGTTAGCCAA GAGCCAGGAC 60
 AAGAGTCTCA AGATTTATGA CGGTGCCTAC CATGTTCTCC ACAAGNAGCT TCCTGACGTC 120
 ACCANCTCCG TTTCCNTGA ANN 143

20 SEQ ID NO:6568
 SEQUENCE LENGTH:199
 SEQUENCE TYPE:nucleic acid
 25 TOPOLOGY:linear
 CLONE:HUMGS07745
 SEQUENCE DESCRIPTION:
 GATCTGCTGC AATGCTCNAAGGCCAAGGAT TCATCTNTCT TNTCACCCTA GGACCTGNCT 60
 GGCATTGTAT TAGCAAACTC TTCTACTAGA CATCGTACTA CACGACACGT ACTACGTNGT 120
 30 AGCTCACTGC CNCTGATGTC CTATCAATAG GAGCTGTATT TNCCATCATA GGAGGCTTCA 180
 TTCACTGGTN TCCCNATN 199

35 SEQ ID NO:6569
 SEQUENCE LENGTH:37
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07746
 SEQUENCE DESCRIPTION:
 40 GATCGTTTCC AGGACAATAA AAGTTTCGGA GTTGAAA 37

45 SEQ ID NO:6570
 SEQUENCE LENGTH:57
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07748
 SEQUENCE DESCRIPTION:
 50 GATCAGATGT TAAAAATNAT TCCAAATACT TCATTAAAAT AATTATTTTA TTATAAA 57

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EP 0 679 716 A1

SEQ ID NO:6571
 SEQUENCE LENGTH:152
 SEQUENCE TYPE:nucleic acid
 5 TOPOLOGY:linear
 CLONE:HUMGS07749
 SEQUENCE DESCRIPTION:
 GATCGAGGAA AGGGGCGGAG AATTTTTTTT TCTTCTTCCC ATTCTTTAA AAAACCAACA 60
 10 CAAGAAAACA CACACACACA CAACCAACGT TTGTTCCCGA GTAGAAACAT AAATAGGGCA 120
 GAATCGAACA CTCTGTTCTT CTCTCTTCCA AA 152

SEQ ID NO:6572
 SEQUENCE LENGTH:22
 15 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07750
 SEQUENCE DESCRIPTION:
 20 GATCAGAGCT TGA AAAAACA AA 22

SEQ ID NO:6573
 SEQUENCE LENGTH:111
 SEQUENCE TYPE:nucleic acid
 25 TOPOLOGY:linear
 CLONE:HUMGS07751
 SEQUENCE DESCRIPTION:
 GATCAACCTG TGGCTGTTT CCCGTCTAGG TTCTCACAGG NATCTCCTGA CAGAGGTACT 60
 30 TAACAATGGC TCTNCTGGAA ATTTCTATAA ATAAATGTC CAAAATGGAA A 111

SEQ ID NO:6574
 SEQUENCE LENGTH:44
 SEQUENCE TYPE:nucleic acid
 35 TOPOLOGY:linear
 CLONE:HUMGS07752
 SEQUENCE DESCRIPTION:
 GATCTCATCA CTGCTCCTTA TAATAAACCT AATAAGCAA GAAA 44

SEQ ID NO:6575
 SEQUENCE LENGTH:42
 SEQUENCE TYPE:nucleic acid
 40 TOPOLOGY:linear
 CLONE:HUMGS07753
 SEQUENCE DESCRIPTION:
 45 GATCCCGCCA CTGCACTCTA GCCTATGTGA CTCTGTCTCA AA 42

SEQ ID NO:6576
 SEQUENCE LENGTH:48

55

EP 0 679 716 A1

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07754

SEQUENCE DESCRIPTION:

GATCATTGT AAGACCAAAA TATAAATAAA AAGTTTCAAA AATCTAAA 48

SEQ ID NO:6577

SEQUENCE LENGTH:46

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07755

SEQUENCE DESCRIPTION:

GATCGATTAC AATAAATGTT TTTCTAAAAA GCCATTTTCC CACAAA 46

SEQ ID NO:6578

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07756

SEQUENCE DESCRIPTION:

GATCAAAAGC TTTGCATTGA TAAGTGCTC ATAATATTG CTGTGATTGG AGAAAAAATG 60

TAGTCGTAGC CAATAAATTT TATCAGCTTT TAAGTTTCAG TATTATTAAA CCATTTTCAT 120

ATAAA 125

SEQ ID NO:6579

SEQUENCE LENGTH:36

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07757

SEQUENCE DESCRIPTION:

GATCAAAATGT GAAATAAATA TGAATGGAGT GGTAAA 36

SEQ ID NO:6580

SEQUENCE LENGTH:199

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07758

SEQUENCE DESCRIPTION:

GATCTCTGGC CCTTGCGTT TCAGTATTG TCCTTTTAT GCCTGAATGT TTAACCTGCC 60

ACATNTTGT ACTGCAACAT GAATCTTGGA AATTTAATG TTATGCATTT NAAANGTTT 120

TGGTTATCTG TAAACTAAAT GTGCCCTTAT TGGCTNGGNG GTCAAGTNAA GATGTTTGT 180

TAATGTATTN GTCAGNAAA 199

SEQ ID NO:6581

SEQUENCE LENGTH:66

EP 0 679 716 A1

SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07759
 5 SEQUENCE DESCRIPTION:
 GATCTACTGT GATGTTGTCT TCAAAGGCAG GNGAAAATAA TGTTACAAT AAAATGTGCT 60
 AACAAA 66

10 SEQ ID NO:6582
 SEQUENCE LENGTH:135
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07760
 15 SEQUENCE DESCRIPTION:
 GATCTGTAAA GAATGACTTT CAAGGATAGT TCTTAGGGGA CTGTGAAAGT GTTGGGTCTT 60
 ACTCNAGGAT GCCTGCATGG GACCCNACCC GGAGCTGGTG TGGCCATTCC CCAAGTGCCA 120
 CTGGNCCATG GNNNN 135

20 SEQ ID NO:6583
 SEQUENCE LENGTH:130
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 25 CLONE:HUMGS07761
 SEQUENCE DESCRIPTION:
 GATCAGCCTG GCCAACATGA TGAGACCCCA TTTGTACTGG AAATGCAAAA ATTGGCCAGG 60
 CATGGTCGCG GGTGNCCTGTG GTCCCAGCTG CTCGGGACGC TGAGGCAGGN NNNATCGTTT 120
 GAACCTNGGN 130

30 SEQ ID NO:6584
 SEQUENCE LENGTH:80
 SEQUENCE TYPE:nucleic acid
 35 TOPOLOGY:linear
 CLONE:HUMGS07762
 SEQUENCE DESCRIPTION:
 GATCAAAATGA AAGGCCTATA ACTAAAATCA GCCAGCCCAT GGCCNCNACT AAAGGAACCT 60
 NCCTCTGCTC CCTNTGCAAA 80

40 SEQ ID NO:6585
 SEQUENCE LENGTH:48
 SEQUENCE TYPE:nucleic acid
 45 TOPOLOGY:linear
 CLONE:HUMGS07763
 SEQUENCE DESCRIPTION:
 GATCAACAAT TTTTGTTTTG ATTAAAATNA GTTTTTTGAA AGTTGAAA 48

50 SEQ ID NO:6586

55

EP 0 679 716 A1

SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07764

SEQUENCE DESCRIPTION:

GATCCCCCTGC TGGCTGGGGG CAGCTCCCAG GATATACTGC CTTACAACCTG TTTCTAAAGC 60

CCATCCTNCT AACATGGCGA TTCCGGAGGT CAAGGCCTTG GGCTCTNCCC AGGGTCTAAC 120

GGNTAAGGGG GCCACATACC NGTTCCAAGG GGNNTGTCAA GTNGTGAAGT CGTTNTGN 178

SEQ ID NO:6587

SEQUENCE LENGTH:99

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07765

SEQUENCE DESCRIPTION:

GATCAGATGG TTTATAAAG TAATAACCAT AAAGCAAAAA ATAATTGAA AGCCCGTCTA 60

TTCTATGCT CANTAAGTT AAGGTTTTTC TTCATTAA 99

SEQ ID NO:6588

SEQUENCE LENGTH:65

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07766

SEQUENCE DESCRIPTION:

GATCCTTTGA GCCCAGGAGT TTGAGACCAG CTTGGGCAAC ATAGTGAGAC CCTGTCTCTA 60

CCAAA 65

SEQ ID NO:6589

SEQUENCE LENGTH:205

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07768

SEQUENCE DESCRIPTION:

GATCACAGGG TCAGGAGTTC AAGACCACCC TGGACAATAT TGTGAATTCC TGCCTCTACT 60

AAAAATACAA AAATTAGTCG GGCATGGTGG CGGGTGCCTG TGGTCCCAGC TACTCGGGAG 120

GCTGAGGCCA GAAAATCGGT TGAACCTGGG AGGTGGAAGG TGCCTGAGC CAATATCACA 180

CCAGTGCCT CCAACCTGGT GACGN 205

SEQ ID NO:6590

SEQUENCE LENGTH:57

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07769

SEQUENCE DESCRIPTION:

GATCTCATAC TCAACAGAAG GAGACTCAGA GACTCCAGAA GGCACAGGAG CTGCCCN 57

EP 0 679 716 A1

SEQ ID NO:6591
 SEQUENCE LENGTH:184
 SEQUENCE TYPE:nucleic acid
 5 TOPOLOGY:linear
 CLONE:HUMGS07770
 SEQUENCE DESCRIPTION:
 GATCATGTTT ATTTACTGAT AAAACTCAAT ACCTAGAAGT GCACCTAGCT CATGATGGTA 60
 CCTAATAAAT ACTTCAATGA AATGATGTGG TGATGCATGC CTATAGTTTT AGCTACTTGG 120
 10 GAGGGTGGCC TGAGCCAGG GGTCTAGAC CAGCTTAGGC AACATAGCAA GACCCCATCT 180
 CAAA 184

SEQ ID NO:6592
 15 SEQUENCE LENGTH:165
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07771
 SEQUENCE DESCRIPTION:
 20 GATCTGAATG GTTTTAATAA GTGCCTGGNA TTCCCTTAC TGGCTCTCAT NCTNACTCTT 60
 GCCGCCCTGT GAAGAGGTGC CTTCCACCGT GATTGTNAAG TTTCCTGAGG CCTTCCAGC 120
 CATGTGGAAC TGTGAGTCGA AAATNAAACC TCTTTTATAA TAAA 165

SEQ ID NO:6593
 25 SEQUENCE LENGTH:134
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07773
 30 SEQUENCE DESCRIPTION:
 GATCCAAGCT TAATTTTCAA ACAGCTTCCC AAAAAGCTGT ATCCTGAATA TCATAAAGTC 60
 TATCATATGA TGTGTACTCA GTCATATTCT GTAGACTCAA ATCTTTTATC TGATTATACC 120
 AGCTTTCCCG NAAA 134

SEQ ID NO:6594
 35 SEQUENCE LENGTH:148
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 40 CLONE:HUMGS07774
 SEQUENCE DESCRIPTION:
 GATCTGCCCA CGTTGGCCTC CAAAGTGCTA GGATTATAAG TGTGAGCCAC CACACCAGGC 60
 CCGTTTCATC CTTGNCTCAG CTTGCATGCC AAGCTCCCTN GGTGCCCGNC CACAGGTGTC 120
 45 ACCCTTTNAG GAGAANGTGG CTTGGGGN 148

SEQ ID NO:6595
 SEQUENCE LENGTH:238
 SEQUENCE TYPE:nucleic acid
 50

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TOPOLOGY:linear

CLONE:HUMGS07775

SEQUENCE DESCRIPTION:

5 GATCGCTTGT AGCTGGGAAC AGTGCTTACT TCAGGGAAAA CTGATTTTGA TAGAACCGAC 60
 TAGTTGAGTA TTAAACTGTT TTGGAAATAA TTTATATATC TAAGTGCTGA AATATATTTC 120
 TCTTCTCCCC ACTTATTCAA ATAAAAANGT TTNATACTA TAAACTTTTC NNGTTAGCG 180
 CCACGCAGTC CTTGTCAAGN TTGTNCTGGG GGNCAANAAC TTGATGTATA AAGCATGN 238

10

SEQ ID NO:6596

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15

CLONE:HUMGS07776

SEQUENCE DESCRIPTION:

GATCTCTACT ACCANAAGGA AAATAGTTTA GGNGAAACCA GCTTTTANTG TTTTGTAAA 60
 ATTAGCTTCA CCCTGTNATG TTANCAAGGT ATGTCTTTGC CN 102

20

SEQ ID NO:6597

SEQUENCE LENGTH:65

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25

CLONE:HUMGS07777

SEQUENCE DESCRIPTION:

GATCGCGCCA CTGCACTCTA GCCTGGGTGA CCAGCCTGGG TGACAGAGTG AGNCTCCGTC 60
 TCAAA 65

30

SEQ ID NO:6598

SEQUENCE LENGTH:282

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35

CLONE:HUMGS07778

SEQUENCE DESCRIPTION:

GATCTAGAAG AAAGTATTGT ACGTTTGAAT GCAGATTTTN ATCCACAGAT AGTTGTAGTG 60
 TTTAGACATG ACAGGACCTA TCGTTGAGGT TTCTAAGACT TACTATGGGC TGTAACCTG 120
 TTTTNNAAAA CTATTTTAGA AACCTGAGAC TTGCCGTCTG GCATTNAGT TTAATACAAA 180
 40 CTAATGATTG CATTTGNAAG NGNTNCTTGA CTTATTTCT AAACGTCTAG NGCTCTGAAA 240
 TGTCTTGCTG GNNGGTATTA AACTATTTGC CTGTNGTACA TN 282

45

SEQ ID NO:6599

SEQUENCE LENGTH:173

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07779

SEQUENCE DESCRIPTION:

50 GATCAATGG CTTAGAGNTA GTCCTGGAAT ATTCATATTC AAAGATTCCT TATTAATGAA 60

55

TGTCCTTAAC TTAATCTAC CCAATAATTG CAACATGGTT CTTTGTACAT TTTCATTATA 120
 TGGTGTTAAC AAGCTTCACT GCAAACAAAT AAATTACTTA AGTTATTTGN AAA 173

5

SEQ ID NO:6600
 SEQUENCE LENGTH:263
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

10

CLONE:HUMGS07780

SEQUENCE DESCRIPTION:

15

GATCAGTGTA GCAAATNAGG GATGAAGNGT TCAAACCTTT TGGCCCTTTC TTCTTTNCT 60
 AGGCTTCTCC CTCGCAGGGT GTCCCGTAGT TTCTTCTCGA GCCAATGCAT GTATTATAGC 120
 AGCAGGTGTC TTTGTGCTTT CTCATCATAG TAACGTAATA CATTITTNCTA 180
 TTINCTATTT TTTTGTATTT TTTTGTGACA TTTTGTTC A TGGTGTGCT GNGNGNNNCC 240
 CATGCCCTCA CTCCTTAAAG AAA 263

20

SEQ ID NO:6601
 SEQUENCE LENGTH:51
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07781

25

SEQUENCE DESCRIPTION:

GATCCAAAAT TCTCAACAAA ATATTAGCAA ATTGAACCCA CCAAGGTAA A 51

30

SEQ ID NO:6602
 SEQUENCE LENGTH:283
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07782

35

SEQUENCE DESCRIPTION:

GATCAAGGC CTCTNAGGGG TGTCCACCAA AAACCTCTCC TTCAAAGAG AAGACTCCGT 60
 GCTTCAGGGC TATGACATCA ACAGCCAAGG GGAAGAGTCC ATGGGAAATG CAGAGCCCCT 120
 TAGGAAGCCN ATCAAAAACC GGNGCNTANN GTTAANGAAA GTGAAGTCCC AGGAAATACA 180
 CATGCTCCCA ATCAAAAAC AACGGCTGGC CACCTTTTTT CCAAGAAAGT AAATAACGGC 240
 TTTTAAANT NNGTATGNTT ATAATATGGG GAAAGGTGCA TTN 283

40

SEQ ID NO:6603
 SEQUENCE LENGTH:223
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07783

45

SEQUENCE DESCRIPTION:

50

GATCGTTCAT CCGATTGCNA CGTTCCAAAG TGTCCAGGTT TTTAAGACCT TACAAATGAC 60
 TCAGCCCACG TGCCACTCAA TACAAATNTT CTGCTATAGG GTTGGTGGGG CAGAGCTGTC 120
 TTCCTTCTGC ATGTCAGCAC AGTCGGGTAT TGCTGCCTCC CGTATCAGTG ACTCATTAGA 180
 GTTCAATNNN NATAGATAAT ACAGATATTT TGGTAAATTG AAA 223

55

SEQ ID NO:6604

SEQUENCE LENGTH:100

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07785

SEQUENCE DESCRIPTION:

GATCACCTGA GCCTGAGAGT TCCAGACCAN CCTGGGCAAC ATAGCGAAAC TNCATCTCTT 60
 TAAAAATAAA ATAAAAATTAA AATTAATACA AATAATTAAA 100

SEQ ID NO:6605

SEQUENCE LENGTH:69

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07786

SEQUENCE DESCRIPTION:

GATCCCTTCC ACTCAGGATT CTCGCCGCCT TTTCTAAGAA AATAATAAAA AAAAAATNCT 60
 TGTTTCAAA 69

SEQ ID NO:6606

SEQUENCE LENGTH:164

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07787

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCGGCCTC CCAAAGCGCT GGGATTACAG GCGTGAACCA CTGCGCCCAA 60
 CCTTTGGATT ATTTTGTGA GAGATGGGGC TTCCCTATGT TGGCNAGGCT GGTCTCAAAC 120
 TCCTGGANTC CAGCCTGGGC GGCAGAGCAA AACCTTGTCT CAAA 164

SEQ ID NO:6607

SEQUENCE LENGTH:73

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07788

SEQUENCE DESCRIPTION:

GATCACTCCT CTGCTTCAGC CTGGGCAATT GAGCCAGACT CTGTCTCAAA AATAAACAAA 60
 AAAACTTGAC AAA 73

SEQ ID NO:6608

SEQUENCE LENGTH:74

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07789

SEQUENCE DESCRIPTION:

GATCTTTTGA CCTGGATATG TCTGTAAGGC TCCTGAAAGA GACAAATAAA GTCAATATAT 60

TTNCACAGTG CAAA

74

SEQ ID NO:6609

SEQUENCE LENGTH:58

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07790

SEQUENCE DESCRIPTION:

GATCTTAGGT CAAATAACAG ACTTGAGAAT ACTTTATAAA CTGCCATGAT ACAGCAAA 58

SEQ ID NO:6610

SEQUENCE LENGTH:139

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07792

SEQUENCE DESCRIPTION:

GATCGNGNGC GTTTAACGCT GGTGGGCAGC AATAAGGGGC AGATGTGACC AGATGCCTGC 60

NTCCCCAGGG TGCCGAGGGC AGCAGGAAAA AGTGGGGACC TCGGTGCATT TGCCCCACCC 120

NTCCCTNNC TGGGCTAAN 139

SEQ ID NO:6611

SEQUENCE LENGTH:75

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07793

SEQUENCE DESCRIPTION:

GATCATCGAC ACTTCGAACG CACTTGCGGC CCCGGGTTC TCCCGGGGCT ACGCCTGTNT 60

NAGCGTCGCT TGAAG 75

SEQ ID NO:6612

SEQUENCE LENGTH:171

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07794

SEQUENCE DESCRIPTION:

GATCTGGGGG AGGAAGTTCA AGGAAGGCAC CACACCAGAA ATNGGACCTA AATTAAGGCT 60

TAAAGAATGA GCATGGCCAC ACTGTCAGTN AGTGTTCTTT AGGTGGTAGG ACTATGGTTG 120

ANATTTTCNT TCTTCCTATC TTCCTGCCTT TTTCAGGNNN TNAATATTAA N 171

SEQ ID NO:6613

SEQUENCE LENGTH:69

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07795

SEQUENCE DESCRIPTION:

GATCACGATG TAAATAATTA AGCATTTTGG TTGGATTCT TTTGTAATAA ACTATTTTGG 60
TACCATAAA 69

5 SEQ ID NO:6614
SEQUENCE LENGTH:271
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07796

10 SEQUENCE DESCRIPTION:
GATCTAGGAT AGCTAAGTNA CCTACATGGT GACTGTTCGG TCTAATTCAG AACAGAAGT 60
ACTAAAAGAA TACTAAAAAG TTTTACCCA TTATCTCTAT CCCTGTTTN TTTTGCAAT 120
TCTCAGCNGN AGGGAGCAAG AAAATACACA GCAGNGGGG GAATGTTGT TTGCATCCTG 180
15 GCTTTCTCAA CCGCACTTA CGTCCTTGAA TATNCTAGAT ATTTACTCCT TCAAGAAGTC 240
AGGAGTATAT CCAGGCCTAC CTATCNCCT N 271

20 SEQ ID NO:6615
SEQUENCE LENGTH:237
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07797

25 SEQUENCE DESCRIPTION:
GATCACACCA TGGAGACTTT CTACTAGAGG ACTTGAAAGA GAACTGAGGG GCCACAAAAT 60
AAACTTCACC TTCCATTAAG TGTCAAGCA TGTCTGCAA TTAGGAGGNG GTTAGAAACA 120
GTCTTTTCA TCCTTTGTGA TGAAGACTGA AATTGTGCCG TGTGCCTTA TATGANTATG 180
CAGTATGGGA CTTTGAAATA ATGATTCATA ATAAAATACT AAACGTGTGT CTTCAA 237

30 SEQ ID NO:6616
SEQUENCE LENGTH:196
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07798

35 SEQUENCE DESCRIPTION:
GATCTNAAAT AAAATTCAAA CTCTACTTCT GTTGTCTAGT ATGTAATTGA GCTAATGATT 60
CATTGGGAAT ATACCTTTT ATACTCCTTT ATCATGGTAC TGTAAGTGA TCCATATTAT 120
AAATATAATT ATCTNAAGGN TTTTNAATTT TTNTTATGT CCAAGNGCCC ACGTGAATTT 180
40 NCTGGTGAAA GTNAGN 196

45 SEQ ID NO:6617
SEQUENCE LENGTH:75
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07800

50 SEQUENCE DESCRIPTION:
GATCATCGAC ACTTAGAACG TACTCCNGNC CCCGTGCTCC TCCAGAACCT ACGNCTGCAC 60
TAAGCGTCGA TAAA 75

55

5 SEQ ID NO:6618
 SEQUENCE LENGTH:50
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07801
 SEQUENCE DESCRIPTION:
 GATCACGCCA CTGTACTCCT GGGCAACAAA GCGAGACTCC CTGTCTCAA 50

10 SEQ ID NO:6619
 SEQUENCE LENGTH:208
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 15 CLONE:HUMGS07802
 SEQUENCE DESCRIPTION:
 GATCGAGGCT TGTNATGCCT TGTGAGAAAT AAGGGCCTTA ATTTGTACTG TCTGCGGCAT 60
 TTTNATAAT ATTGTATATA GTGACTGACA AATATTGTAT TACTGTACAT AGAGAGACAG 120
 GTGGGCATTT TTGGGCTACC TGGTTCGTTT TTATAAGATT TTGCTGGGT GGTTTTTTTT 180
 20 TTAATTAATA AGTTTTGCAT CTTTTAAA 208

25 SEQ ID NO:6620
 SEQUENCE LENGTH:151
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07804
 SEQUENCE DESCRIPTION:
 GATCAGGAAG CCAAACCTAA GAAAGAGCTT GAAAATACTG CTCTAGAGCT TAGTCAGAAA 60
 30 GAAAAACAGT TTAATGCCAA AATGCTGGAA ATGGCACAGG CTAATCAGC TGGAATCAGT 120
 GATGCAGTGT CAAGACTGGA AACAAACCAA A 151

35 SEQ ID NO:6621
 SEQUENCE LENGTH:33
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07805
 SEQUENCE DESCRIPTION:
 40 GATCTNGGCA ACACAGTCAG ACTCCGCTG AAA 33

45 SEQ ID NO:6622
 SEQUENCE LENGTH:321
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07807
 SEQUENCE DESCRIPTION:
 GATCCGGACG ACGTAATCAC TGACATTNAG ATGGTGGACG AGGGCTGGTG GCGGGGACGT 60
 50

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EP 0 679 716 A1

TGCCATGGCC ACTTTGGACT CTTCCCTGCA AATAATGTCA AGCTTCTGGA GTNACTAGAG 120
CTCACTGTCT ACTGCAACTN TAATTTCCCA TGTCCAAAGN GGNTCTGCCT CCACCCCTC 180
CCTATTCTCTG CTGCAAATNT CTAACCAGAT GAGGTTCTGG ACAGACTTCC CTCTCCTGCT 240
5 TCATTAAGGG CTTGGGGCAG AGNCAGCATG GGAAGGAGG TCCCCTTCCC CAAGAGTCCT 300
CTTCTATCCC TGGATGAANN N 321

SEQ ID NO:6623

SEQUENCE LENGTH:96

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07808

SEQUENCE DESCRIPTION:

15 GATCCAGCA CCCATTCTT AGCTATTTAT CCCTTCTCTG GTTCCGAAA GGCAATTATA 60
TCTATTATGT ATAAGTAAAT ATATTATATA TGGAAA 96

SEQ ID NO:6624

SEQUENCE LENGTH:242

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07810

SEQUENCE DESCRIPTION:

25 GATCTAGGCT TCTNGCCTCA CTCCCATTAG GAATAACACC CAGCAAAATG GAACTATCCA 60
AGCACTTCCT ATACATCTGT CTCCCATTG TCTCTTAAGA AGTTTCTTCA GCTGGTGCGC 120
CATCATCATC ACCATGACTG CCCCAGCTC TTGAGGAAAG GNATAATTAC CTCCATGGTG 180
TTGCCTCCTA TTTGCCTAAA GCACCAGAAA TAATATTAAA TACACCAGAT TAACTACANA 240
AA 242

30 SEQ ID NO:6625

SEQUENCE LENGTH:97

SEQUENCE TYPE:nucleic acid

35 TOPOLOGY:linear

CLONE:HUMGS07811

SEQUENCE DESCRIPTION:

GATCCCGTCC TTGTCAGAGA AGTGTTCTT GGATGAGCGC CCAGAGGGAG GAGCCCATGG 60
40 CCCTTCTTC TGTNACTGAT TAAAAATCTC GATGAAA 97

SEQ ID NO:6626

SEQUENCE LENGTH:98

SEQUENCE TYPE:nucleic acid

45 TOPOLOGY:linear

CLONE:HUMGS07812

SEQUENCE DESCRIPTION:

GATCCCTTCA AGACTTTGTC ACAGCCTCTA TCACACATCT GTTTTCTCG AAGNAAAAA 60
50 TATAATTAAT AAAAATGTTT TACTCTTTTA CACTGAAA 98

5 SEQ ID NO:6627
 SEQUENCE LENGTH:36
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07813
 SEQUENCE DESCRIPTION:
 GATCCCGNTG TTCTTAATAA ATCCTGACTT CCCAAA 36

10
 15 SEQ ID NO:6628
 SEQUENCE LENGTH:35
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07814
 SEQUENCE DESCRIPTION:
 GATCAAAAAT AAATACTGCA CATAAANA AAAAN 35

20
 25 SEQ ID NO:6629
 SEQUENCE LENGTH:77
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07815
 SEQUENCE DESCRIPTION:
 GATCTTGTTT TTATTGTTAT TGCTTTTATT ATNATTGCTT TTATTATCAT TAAAACTCTA 60
 GTTCTTGTTT TGTCAAA 77

30
 35 SEQ ID NO:6630
 SEQUENCE LENGTH:98
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07816
 SEQUENCE DESCRIPTION:
 GATCCAGTAC AGAAAGGAAA GGNTATTAT TGATTAACAG AAGTTGTCTT TTTAAAAGTG 60
 TTTATTTTGG GCAATAAAGA GCACAACATA ATCTCAAA 98

40
 45 SEQ ID NO:6631
 SEQUENCE LENGTH:132
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07817
 SEQUENCE DESCRIPTION:
 GATCAGGGAA CAAAATCCTC TCCTTGTTGGA AATATCCCAT GCAGTTTGTT GATACAACTT 60
 AGTATCTTAT TGCCTAAAAA AAAATTNNCT TATCNTTGTT TCAAAAAAGC AANNTCATGG 120
 ANAATTTTGG TN 132

50
 55 SEQ ID NO:6632

SEQUENCE LENGTH:304

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07818

SEQUENCE DESCRIPTION:

GATCAACGGC TGACCTTCTG GCGTCTGGGG CATGGTGAAC CCACCTNCAT GAATAGCACT 60
 GTGTTCCATG TGCCTGANGT GGCTGACATG GACTGCTGGC CTGTAAGCCC TGAGTTTGGC 120
 CACCGTTGTG CCCTTGGGGG TCAGGGGNTT NAGGTTTACA ACTGGTATGA CTGAGGTATC 180
 CTGCGGTGGC TGGCGTGCTG GGCATGGGGC NTGCTCACAG ACAGNATGGA GCAGGGAAGG 240
 GCTGTCCTGT GCCCATGCTC AGCTTGNCCT TNNNGNNGAN GGAGGTNGTG GCCGTGGGTN 300
 CCTN 304

SEQ ID NO:6633

SEQUENCE LENGTH:35

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07819

SEQUENCE DESCRIPTION:

GATCTCAAAT AAAATTNCTG TAAAGAATTT CCAA 35

SEQ ID NO:6634

SEQUENCE LENGTH:185

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07820

SEQUENCE DESCRIPTION:

GATCCAAATC GGGCCATCTT CATTGCCATG AGTGTTCGGA CAGGCTCTGC GTGCCAGGCA 60
 ACAGTGGGCA GACAAAGGC TCCCTGGCTA CTGGGAAGAT ACAGAACCAT CCTGTGAAAA 120
 TCATTCAGC ACTGGAGACC TTCTTTGCTA TTAATTCTTT CATTAACAAT GACCTCTAAT 180
 TTAAA 185

SEQ ID NO:6635

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07821

SEQUENCE DESCRIPTION:

GATCCGTGGC CTGAAGGTTT CTAGAGNCGT CAAGAAATNA ATATCTTACA CTGTGATTCT 60
 GTGAGGAAAG ACTGGTAACC CAAACTCTC TTCTCTAATG TATTTTNNAA CGNAAATGAC 120
 AATATTCTT TAATAAGTA TTTATACCAA A 151

SEQ ID NO:6636

SEQUENCE LENGTH:165

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

EP 0 679 716 A1

CLONE:HUMGS07822

SEQUENCE DESCRIPTION:

5 GATCCAGGTC TAGGCCCTTN ATCTGCTGCT CTGTGGCCCA GGGCAGGTTT GCTTGACCTC 60
 TGCCTCAGTT CTCGACTCTA AAGGACATAC TGACCTACCT CACAGGGGTG TTGTNAGGAT 120
 TAATAAATNT TGGTACTCTG CTTTGGAAT NTGAAAAAA AGAAA 165

SEQ ID NO:6637

SEQUENCE LENGTH:71

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07823

SEQUENCE DESCRIPTION:

15 GATCAAATTC AGTGTGTAT GTATGTTTAT GGCAACATTT TGAAAATAAA AATTAAATGT 60
 TTNCTTCAA A 71

SEQ ID NO:6638

SEQUENCE LENGTH:348

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07824

SEQUENCE DESCRIPTION:

25 GATCTCAATA CTTCCCTGAC ATCCCTTAAG ACTCAAGTCT TGATACTTTG TCTGCTCTCT 60
 GGCTCTTTCT TTGTCAATTAC TATNATNNNA ATCTTCTTGA TGTTGACTCT TGCTAAAATT 120
 TTTNGTCTTC CTTATTGTTA ATGCTTATAG AAAATGATTC CTTGTATCT TTNAGCCCAT 180
 GTCATCCGAA TCATTGCTG TTTCTAGCCT AGGTGCTTTG ACTATGCCAG CTTGTATTTC 240
 TNCAGAAATTT NCATTANCTA TATGTGTGGT ATTGTAGGCA TTACCATATT TNAATAATAA 300
 30 NTTTAGGCCA TTGCTTCAA TCACAACAAA NNACAACNCA ACNNACNN 348

SEQ ID NO:6639

SEQUENCE LENGTH:53

35 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07826

SEQUENCE DESCRIPTION:

40 GATCTGAAGA GTGAAAATAA TGCTTTAAAT NAAAAATTGA AATCAGAAGG AAA 53

SEQ ID NO:6640

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

45 TOPOLOGY:linear

CLONE:HUMGS07827

SEQUENCE DESCRIPTION:

50 GATCTTTTTN AATTCAGTAC AACCCATAAT CATGTAAATN CTCATTNCT TTAGGNCATA 60
 AAGAGAGCCC TAGGGTGCTC TGAATGTGTA CATGTNCTTG TCATAAAATG CATACTGTTG 120
 ATACAAA 127

55

5 SEQ ID NO:6641
 SEQUENCE LENGTH:23
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07828
 SEQUENCE DESCRIPTION:
 GATCTGTTGT TACTTAACAG AAA 23

10 SEQ ID NO:6642
 SEQUENCE LENGTH:85
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 15 CLONE:HUMGS07829
 SEQUENCE DESCRIPTION:
 GATCTTNATG TTAATNTTCA GAGGACTCTA GACAACAACT TAGCAACTGA AGCTTATNAA 60
 AGAAGAATTA AGCGCCTGA GCAAA 85

20 SEQ ID NO:6643
 SEQUENCE LENGTH:113
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 25 CLONE:HUMGS07831
 SEQUENCE DESCRIPTION:
 GATCTTTTGT GGATATTTGT CACTTGGTTT CAGAAAGTNC ACAAATGTAG CAACAGCTCA 60
 CATGACTGAG TAGGTAGAAA ATGTGAAATA AATCTCATAT ATATNGTTTT AAA 113

30 SEQ ID NO:6644
 SEQUENCE LENGTH:54
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 35 CLONE:HUMGS07834
 SEQUENCE DESCRIPTION:
 GATCGTCCCG CTGCACTCCA GCCTGGCCAA CANAGCGAGA CTGTCCCCC CAAA 54

40 SEQ ID NO:6645
 SEQUENCE LENGTH:59
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07835
 45 SEQUENCE DESCRIPTION:
 GATCTTGCTC CTCTGTAAGG AACAAAGGTG CCTAATAAAT ACATTNCTCC TTTATTAAA 59

50 SEQ ID NO:6646
 SEQUENCE LENGTH:184

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EP 0 679 716 A1

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07836

SEQUENCE DESCRIPTION:

GATCCAGGGT CCCCCAGGGT GGGCTCAGCT CCAGGGAGAG GCCACCCACG TGGCAGCCCC 60
ACCTCTTGAG AGCCCCCAGT GCCGGAGCAG AAAGGACCCT GGACCCNGAG GCAGNNACTG 120
CGGGGTGGTA GAAAAGGTAG AGTAGGCTGT GGCAATGGAA TAAANCACGA TAAAAACGT 180
TAAA 184

SEQ ID NO:6647

SEQUENCE LENGTH:166

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07837

SEQUENCE DESCRIPTION:

GATCCTTCCC CTGCAACCAG ACAGTCTACA ACTGCCCCCT CCAGCCCATT TNCTGCCGTG 60
AAACCCACAG CAGCCANACC AGGCTCTGGA ACCCTTTTTC GACTAGGNC ACTCTTGNC 120
ACCAGNGGG GTAGAACACC NAACACCAA CTGTACAGAN TNTCCN 166

SEQ ID NO:6648

SEQUENCE LENGTH:227

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07838

SEQUENCE DESCRIPTION:

GATCTNTNAT GGTACGACC ACCCGCNTAC CCAGTTCCTC CAGTGGAGAC CAGTTGGGTA 60
GTGGTGA CTGACGCTAC AAGCTCTGCA TTGTNTGCTG ATGGGACGCT CTTCAAGGTG 120
CAAGTAACCA GCCAGAACAT GGGCTGCCAA ATCTNAGNCA ACCCCGGTGG AAACACTNAT 180
TAAAGAACC CCAGAGGACA CCAACAGGTG TNTATCTGGN CNTGNCN 227

SEQ ID NO:6649

SEQUENCE LENGTH:314

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07839

SEQUENCE DESCRIPTION:

GATCTTTGGG GTTGGAGTGA AGGTCTTATC TGCATTAATT TTGTTAATGC ACATTGTAGA 60
TGTGGAGAAC ATCTTGACCT GCATAAGGAT TGGCTCTCAT TTTATTGTGT AGTGCTTTTT 120
CGAAATATTT ACATTTCTTT GGTCCCATG TTCATGTATT CTGGAGAAGT AAAATTTCTT 180
GATTACTGGG CAGACCCTAA AACTACTAAG AGAAACATAA CATGTAGTTA GCTGTCTGCT 240
CATGGTTTGT TCAAATCTAA GCTAACCTTA ATGGTGCTGT GTCCGCTGTN CACAGAAAAC 300
GGCCTTAAAG TAGN 314

SEQ ID NO:6650

SEQUENCE LENGTH:104

EP 0 679 716 A1

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07840

SEQUENCE DESCRIPTION:

GATCCCCTCC CCTGCCCCTG GGTTCCTGCC TTCNTCCTC AAGCAGGCAC NNAGGCTTTA 60
GAGAAGTATA GGGGGCTTCT CCCCTGCNGG GCTTACCACA NTTN 104

SEQ ID NO:6651

SEQUENCE LENGTH:358

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07841

SEQUENCE DESCRIPTION:

GATCAAGATG CCGAACCCTG TGITCAGAAC CTCCAAATAC TGCCATGAGA AACTAGAGGG 60
CAGGTCTTCA TAAAGCCCT TTGAACCCCT TTCCTGCCCT GTGTTAGGAG ATAGGGATAT 120
TGGCCCCCTCA CTGCAGCTGC CAGCACTGG TCAGTCACTC TCAGCCATAG CACTTTGTTC 180
ACTGTCTGT GTGAGAGCAC TGAGCTCCAC CCTTTTCTGA GAGTTATTAC AGCCAGAAAAG 240
TGTGGGCTGA AGATGGTGG TTTCATGTTT TTGTATTATG TATCTTTTG TATGGTAAAG 300
ACTATATTTT GTACTTAAAC AGATATATTT TTACCCAGAG TGGGGATATT CTTTGTAN 358

SEQ ID NO:6652

SEQUENCE LENGTH:46

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07844

SEQUENCE DESCRIPTION:

GATCCAGTTT GGGATTATGA AATAAACAC AAATNAAAAT TTAAA 46

SEQ ID NO:6653

SEQUENCE LENGTH:63

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07845

SEQUENCE DESCRIPTION:

GATCTGGGGG GATGGAAAGC AAAATAAAGG AGGTGCCTGG NTGCATTATT TGCAGTGGGC 60
AAA 63

SEQ ID NO:6654

SEQUENCE LENGTH:290

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07848

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGGTCTC CCAAAGTGCT GGGATTACAG TCTTGAGCCA CCGGGTGACC 60
GTCTTACAGG GATATTTTNA ATCCCGTNAT GGA CTCTGTC TCCAGGAGAG GGTCTATCC 120

EP 0 679 716 A1

ACCCCTGCTC ATTGGTGGAT GTNAAACCAA TATNCCTTTC AACNGGTGNC TGNTAGGGAA 180
AANCTACTCC TCATTATCAT CATTATTATT GCTCTCCACT GTATCCCCTC TACCTGGCAT 240
GTGCTTGTA AGTNCTAGTT GTTCAATAAA TTTGTNAATA ATGCTGTAAA 290

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SEQ ID NO:6655
SEQUENCE LENGTH:145
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS07849
SEQUENCE DESCRIPTION:
GATCTTCCTG GAAATNAGCA GTGACTAACG CTCACATAAC TGGTTTTTTT TTTNAACTGG 60
GCTGATGAAT ACATTACCT ANGAACTCA TTTCGTTTTA CTTAAGAGGG GANGTGCACT 120
TTTNTTTTGG NAGTTCAGAN TCCAN 145

15

SEQ ID NO:6656
SEQUENCE LENGTH:351
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07850
SEQUENCE DESCRIPTION:

20

GATCCTCTGG TTTNTTCCAT TGGGGCGGAG TCGGGGGTGG AGGGAGCTGG CCACAACCCA 60
CTGCTCTGAT GGGTGGTTTG TCCAAGNATG CTGAATGTAA TGCCTGGTCA ATGTGGAAGC 120
CCATNAGGTT GCCCAGGGAA GCCTCCAAAA GCTGGGATGC TTGAGGGTAT CCAAGTTGAA 180
AAAGACAAAA TCTGACCATC AGCCAGTGAC AGTCCTGGCA AATNAAGGTG GGGCGGGGCA 240
GTNAGGGGTG GGNANGGTG AATNNTTCAT TATCCACCC NGCGGTTTNC TGGGGTGAGG 300
GGGAAGANTC GNTGCTTGCT TTGGGCACTG ANGGTTTTTC TGTNNGGGGA N 351

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SEQ ID NO:6657
SEQUENCE LENGTH:346
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07852
SEQUENCE DESCRIPTION:

35

GATCATGTGA AGAAAACAGT GACCATTGAA AATNACCCTC ATCTGCCACC ACCTCCCATG 60
TGTTCAAGTC ACCCATGCAG GCATGCTGAG GTGATGAAGA AAATCATTGA GACTGTTGCA 120
GAAGGAGGGG GAGAACTGG AGTTCATATG TATCTNCTTA TTTCCTTGAA ATTTGTACAA 180
GCTGTCATTC CAACAATAGA ATATGACTAC ACAAGACACT TCACAATGTA ATGAAGNGAG 240
CATAAANCT ATCCTAATTA TTGGTTCTGA TTTTNAAGA ATTAACCCAT AGATGTGNCC 300
ATTGNCCATA TTCATCANTA TATACAGTTT CTCTANTAGG GGAANN 346

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SEQ ID NO:6658
SEQUENCE LENGTH:345
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07853

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SEQUENCE DESCRIPTION:

5 GATCCACACG CTGCCCCAGG AGTTCGACAT TNACCGCAAG GTGGGCGNAG AGCCTGTNCC 60
 TGTAACGAGG GATNATTCCA GCAATGGCTT TCCCCGCACT CAGCATGGTT CCCCAGTAAC 120
 CTCTGTCTGA CCAGCTCCTC GGGGGAGCTG TGGAGGATGG TCGCATCGG TGGACAGCCC 180
 CTGGGGCTTTA ATGAATGTGG CATCGTGGCA CAGATTGCAG GTCCCCTGGC TGCCGCTGAN 240
 ATCTCTGCCT ACTACATCAG CACCTTCAAC TTNNGNNGG GCCTGGTTGC CCGAGGACGG 300
 TATCGGCAGC GTCATCGNGG GTCCTCCAGN GNGGGNAGG AATGN 345

10

SEQ ID NO:6659

SEQUENCE LENGTH:47

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15

CLONE:HUMGS07854

SEQUENCE DESCRIPTION:

GATCTTTGTT AAAAAAATAA AAAGTACTAA CATTACAGAC ATGTAAA 47

20

SEQ ID NO:6660

SEQUENCE LENGTH:35

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07855

25

SEQUENCE DESCRIPTION:

GATCCTGCCA CTGCAGAGTG AAACCTGTC TCAAA 35

30

SEQ ID NO:6661

SEQUENCE LENGTH:279

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07856

35

SEQUENCE DESCRIPTION:

GATCCCCCG AAGTCTTCAC AGGCACTGCA TCGGGTTGTC TGGCGCCCTT TTCCTCCAGC 60
 CTAAGTAC ATCATCCTAT GGACTGAGCC GGCCACTCTC TGGCCGAAGT GGCCGAGTG 120
 TTGCCCCGA GCTGCCCCCA CCCNCTCACA GGGTCCCTCA GNTTATAGGT GCCCAGGCTG 180
 AGGTGAAGNG GCCTGGGGG CCTGCNTTCC GGGCGCTCCT GGACCNTGGG GCAAACCTGT 240
 40 GACCNITTTN TACTGGANTA GAAATNNGTT TTATNATTN 279

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SEQ ID NO:6662

SEQUENCE LENGTH:173

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07857

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SEQUENCE DESCRIPTION:

GATCATAATA TAATTGGTTA CAAAGTGGAA GTGCCAGCTG GCTTAAGTAC CCAAAGAANA 60
 GAATGCAGCA GCCTAACTTA GTGTTACCAT ATGTTACTGA ATTTGAAACT GACCTTTTTT 120
 CCCACCCTAC TTCACACACC TAAACTCTT TTTTGTGTCAG ACCAAAGNGC AAA 173

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EP 0 679 716 A1

SEQ ID NO:6663
SEQUENCE LENGTH:295
SEQUENCE TYPE:nucleic acid
5 TOPOLOGY:linear
CLONE:HUMGS07858
SEQUENCE DESCRIPTION:
GATCCAGTTG TCATCCACCA CAGACATCTC ACATCAGATA CAGACAGTTC CAAGATTGAC 60
AACAGAGAAC AACCTGCTGG AAAGACCTGG GCAGAAATGG AGAGCCCTGC GGAACCATG 120
10 CTACATTTTC ATCTAAAGAG AGAATGCACA TCTGATGAGA CTGAAAGTNC TTTNTTGT 180
TAGATTGTAG AATGGTATTG ANTGGTCTG TGGAAAATTG CATTGCTTTT ATTTCTTTGT 240
GTAATCAAGT TTAAGTAATA GGGGATATAT AATCNTAAGG CNTTTTAGGG TGGCN 295

SEQ ID NO:6664
15 SEQUENCE LENGTH:285
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07859
20 SEQUENCE DESCRIPTION:
GATCATGGTC AGANTGGAGT ACCTGGGGGC TGTCCATGCC CCCCTTTGGA CCTAATCCTA 60
CCCGTCCCGG CCAGCCCTC TCCACACCTN TNCTCCCAA GTACCCGCC ACCGTTTCCA 120
TGGTCGAAGG TCAGGGCGAG AAGAACGTGA CTTCTGGGG GAGACCGCTG CCACGGGTG 180
25 AGGAGCTACA AGGGCAGAAG CTGGTGGTGG AGGNGNACG ACCATNTNTA CACGTGCCTG 240
CTTGCAAAGA CCCTGAGGAA GAGGAACCTT AACANTNTT TCCTN 285

SEQ ID NO:6665
30 SEQUENCE LENGTH:47
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07860
SEQUENCE DESCRIPTION:
35 GATCCTGTTA GTCAGTGTGG TTCATCAAAT AAAACTGTTT GTGCAAA 47

SEQ ID NO:6666
SEQUENCE LENGTH:75
SEQUENCE TYPE:nucleic acid
40 TOPOLOGY:linear
CLONE:HUMGS07861
SEQUENCE DESCRIPTION:
GATCTCTAGA GCTGTCTGTG CGCCGCCAG GATTGACCTG TGTGTAAGTC CCAATAAACT 60
45 CACCTACTCA TCAAA 75

SEQ ID NO:6667
SEQUENCE LENGTH:286
50 SEQUENCE TYPE:nucleic acid

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EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS07862

SEQUENCE DESCRIPTION:

5 GATCCTGCCT GGNCAACCCCT TTCCTGTCCC AGGCCCTACA TTCAGCAGAA ACGCACTTTG 60
 GACTTTNTCC TTTANATAAA AGAAAGACAT CCCAGGAGAA GGACAAACCA GAGGAGTGAA 120
 CCAACAAAGA GTACCTAGGA ATGGAAGTTG AGCCCTGGAA TGGGGCTCCA TGGAGAGGTG 180
 CATAGGACTC GGCAGAAATG GCCTCTCCCC AAAGCCTCTT TTNAGAGGA GAGGGAAGCC 240
 10 TATTTNTTA ACTGGTTTGG GATAGGGAAT GGGGTTNCTT TTTNTN 286

SEQ ID NO:6668

SEQUENCE LENGTH:95

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS07863

SEQUENCE DESCRIPTION:

GATCCCCGCC TGGCCAGGNG CAGGCACGGG TGGTCCCNGT TCCACCCCAA GAGAACTCGC 60
 20 GCTCAGTAAA CGGGAACATG CCCCTGCAG CCAAA 95

SEQ ID NO:6669

SEQUENCE LENGTH:213

SEQUENCE TYPE:nucleic acid

25 TOPOLOGY:linear

CLONE:HUMGS07864

SEQUENCE DESCRIPTION:

GATCTCCTAA TGATGTATTG TGCCGTGGNA GTACTGTGTG TGAATAGCAG TAGTGGGGGC 60
 AAAAGCAATC TTCTCATTTG GAAATGTTGT AAATAATTTT ATTATATAGT GTTTTGGATG 120
 30 TATTTGTTGT AGAAATGGNC CAGTGAATAA AGAGAATCTA AGGNTTTGTA CAATGTGAAA 180
 TAACGTGTTA AATAANTGTC ATTGTCATAG AAA 213

SEQ ID NO:6670

SEQUENCE LENGTH:137

SEQUENCE TYPE:nucleic acid

35 TOPOLOGY:linear

CLONE:HUMGS07865

SEQUENCE DESCRIPTION:

GATCTAAAGA CCCGGGAGCG AGAAGCCAAG GCCAGGTTCT GGGNGNAGGG CCCAGAGAAG 60
 CAGAACAGCC CAGAGCCCCA GGTGCCTGGC CTGGGCTAGA CCTCTGGAAT TGAGATTAAA 120
 CAATTTGGAG TTGGAAG 137

SEQ ID NO:6671

SEQUENCE LENGTH:276

SEQUENCE TYPE:nucleic acid

45 TOPOLOGY:linear

CLONE:HUMGS07866

SEQUENCE DESCRIPTION:

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EP 0 679 716 A1

GATCCGCTAC AGCAACGTGA AGAAGCTGGA AATAAAGCCA AAGTACCCGC ACTGCGAGGA 60
 GAAGATGGTT ATCATCACCA CCAAGAGCGT GTCCAGGTAC CGAGGTCAGG AGCACTGCCT 120
 GCACCCCAAG CTGCAGAGCA CCAAGCGCTT CATCAAGTGG TACAACGCCT GGAACGAGAA 180
 GCGCAGGNTC TACGAAGAAT AGGGTGAAAA ACCTCAGAAG GGAAACTCC AAACCAGTTG 240
 GGAGGCNTTG TGCAAAAGGN CTTTGCAGN TTNAAG 276

SEQ ID NO:6672

SEQUENCE LENGTH:348

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07868

SEQUENCE DESCRIPTION:

GATCCTGGAC CAGTCAGAAG CCGAGAAAGC TCGCAAGGAA CTTTGGAGC TGGAGGCTCT 60
 GAGCATGGCC GTGGAGAGCA CCGGGACTGC CAAGGCGGAG GCCGAGTCCC GTGCGGAGGC 120
 AGCCCGGATT NAGGGAGAAG GGTCCGTGCT GCAGGCCAAG CTAAAAGCAC AGGCCTTGGC 180
 CATTGAAACG GAGGCTGAGC TCCAGAGGGT CCAGAAGGTC CGAGAGCTGG AACTGGTCTA 240
 TGCCCGGGCC CAGCTGGAGC TGGAGGTGAG CAAGGCTCAG CAGCTGGCTG AGGTGGAGGT 300
 GAAGNAGTTC AAGCAGGTTG CCAGAGGCCA TAGGCCCAGC ACCNTNAN 348

SEQ ID NO:6673

SEQUENCE LENGTH:325

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07869

SEQUENCE DESCRIPTION:

GATCTGAGGC CAGCTCCCGT TCCCTGAGCT GCCTCCTGCT TCTCCCTCAA AGTCTCCTAC 60
 CCTTCTCTTC CTCTTTNAAG CCCTCTCTTC CTCGCTTCC TTCCTACCTA GCTCCTGTT 120
 GGTGAGCTTN TTGTGCCTTA ATNCTGTGAC CCAGGCCCTT ACACCANTTT NCACCTTCCT 180
 GTNCGGAGNA CAAGNCACT AGTGCCCCA GGAAGTTGTG TGATTTTAAA TCACTTCTGT 240
 CTTTGCTGGA AAGTGATTTT GTGCATAAAT AAAAGTCTGN GGATTTGTTA AAAANAAGA 300
 AAAANACNNA AAAANAACAN TNAAN 325

SEQ ID NO:6674

SEQUENCE LENGTH:348

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07870

SEQUENCE DESCRIPTION:

GATCAATGGA ATAGAATTTC ATTGGAATG TAAACACTT TCCCAACAAT GGTCAATGACT 60
 TTCTNCTGTT TTTGAGAAGA GTTTCATATG CTGGACCACA TTTNAGCTTT TATTGTTTTT 120
 TTTNCCCAT TGTCCAAAAA GTTAAGCAAC AAGTGGCCAC ACTTTTACGT GNTACAACC 180
 TGGAGTTCTG CAAAGAAGGT AATATTNCT TGGNCTTGC CTAANGTTAT CTCCCCATTC 240
 TATGGTTACA TTTTATTTTG GCCTATGGGG CCTTCTAATA CGTTTTGGTA AAGAGGCGAG 300
 TNAANGNAA TTNCTTGTC AATTTCACCT CAAAGGTAAT TTCNTGCN 348

EP 0 679 716 A1

SEQ ID NO:6675
 SEQUENCE LENGTH:196
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07871
 SEQUENCE DESCRIPTION:
 GATCAACTCT CTAATGGTGC TAATGGCAAT CTAGCTAATG TGCAAATTTA GGAAGTCTTC 60
 AGTACTAAGT ACATAATTTT CAAATAATAT TTTTNAATTG TCTACTTTGG ATGTTAGCTA 120
 TGTCTTGTGN GTATAGGATT CCAATTTTAA GCACTATTTT GATGCAAAAN AATGCATAAN 180
 NAATTTANTT TATAAA 196

SEQ ID NO:6676
 SEQUENCE LENGTH:214
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07872
 SEQUENCE DESCRIPTION:
 GATCATAAAA ATGTGCGCCA ACAACGGCAG GCGCCATCTA AAGCAGCTTC TAAACAGAGA 60
 GAGATGCTCA TNGAAGATGT NGGCAGTGAG GNAGAACAAG AAGAGGAGGA TGAGGCACCA 120
 TTCCAGGAGA AAGATTCCGG CAGCGATGAA GATTTCCTAA TGGACGATGA TGACGNTNGT 180
 NACTATGGCA GTTCGAAAAN GAAAAACANA TNNN 214

SEQ ID NO:6677
 SEQUENCE LENGTH:138
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07875
 SEQUENCE DESCRIPTION:
 GATCCCCCAA GCCTGACGNG CCGNTNACCA TCCCCTCTGC CCTGCAGAGN CAGCCGCCAA 60
 GGNTGACCTC AGCTTCGGAG CCACCTCTGG ATGAACTGCC CCCAGCACCC GCCCCATTAA 120
 AGACCCGGAA GCCTGAAA 138

SEQ ID NO:6678
 SEQUENCE LENGTH:208
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07876
 SEQUENCE DESCRIPTION:
 GATCCATCGC AGAGTCCTAA AGAAGAACCC ACTGAAAAAN TTGAGANTCA CAAGCTCCGG 60
 GTGGATAAGG CAGCTGCTGC AGCANGGCAC TACAAGCCAA ATCAGATGAG AAGGCGGCGG 120
 TTGCAGGCAA GANGCCTGTG GTAGGTAAGA NAGGAAAGAN GGCTGCTGTT GGTGTTAAGA 180
 NGCAGAAGAN GCCTCTGGTG GGAAANNN 208

SEQ ID NO:6679
 SEQUENCE LENGTH:188

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07878

SEQUENCE DESCRIPTION:

GATCTCCTGG AGGCTACAGG GAGCAGAGGC GATGCCCCGA GCGGCGAGCG TGTTCCTCAGG 60
 AGCAGGTGGG CAGGGGCCTT GCAGACTCTT CATTTCTTCC TTCCCTTATC ACCGTTAGCC 120
 ATTTTATG GATAGAGATA CAGAGGAGCT CCCATTACAA AGCGCCATTA AACTGTCATC 180
 TGTGCAAA 188

SEQ ID NO:6680

SEQUENCE LENGTH:35

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07879

SEQUENCE DESCRIPTION:

GATCTTGGTG GTAGTAGCAA ATATTCAAAC GCAAA 35

SEQ ID NO:6681

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07880

SEQUENCE DESCRIPTION:

GATCTTCCGT GGTGAGAGTG CCACTGCGGG AGCTCTGTAT GGTGAGGATG TAGGGGTAA 60
 CTTGGTCAGA GCCACTCTAT GAGTTGGACT TCAGTCTTGC CTAGGCGATT TTTCTACCA 120
 TTTGTNTTTT GAAAGCCCAA GGTGCTGATG TCAAAGTGTA ACAGATATCA GTGTCTCCCC 180
 GTGTCTCTATC CTTGCCAAGT CTCAGAAGAG GTTGGGCTTC CATGCCTGTA GCTTTCCTGG 240
 TCCCTCACCC CCATGGCCCC AGGCCACAG CGTGGGAACT CACTTCCCT TGTGNTN 297

SEQ ID NO:6682

SEQUENCE LENGTH:22

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07881

SEQUENCE DESCRIPTION:

GATCCAAGAT ATCACTTAGA AA 22

SEQ ID NO:6683

SEQUENCE LENGTH:292

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07882

SEQUENCE DESCRIPTION:

GATCCAGCTG TGGTTCCAGA GCAGTGAGCT GGTGAGCTGG GCAGATGGGG GCCAGCACAG 60
 CAGNATCCAC CCAGNCTGAG GCTCAAGCTG CCCTTACCAC CCCATCCCC ACGCAGGACC 120

EP 0 679 716 A1

AACTACCTCC GTCAGCAAGA ACCCAAGCCC ACATCCAAAC CTGCNTGTCC CAAACCACTT 180
ACTTCCCTGT TCACCTNTGN CCNACCNCAG CCCAGAGGAG TTTGNGCCAC CAACTTCAGT 240
GNCTTTTGT ACCCNAAGNN AGCACAAGAT TGGACCAATA NTTTTGNAG TN 292

SEQ ID NO:6684

SEQUENCE LENGTH:247

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07883

SEQUENCE DESCRIPTION:

GATCTGCCTT AGCCTCACTG CTTGCCCTTA AGTGGTGGGA TTGCAGGTGT GAGCCACTGT 60
GCTGGCCTCA AATAGTTTTN ATCAAAGCTA CTTCAATTAG TGGTTAGCAA GGCTTAAAGA 120
CTAATTCAGT GCTTTATTTT NACACTNGNT CGCAACATGT TGCTTTTTTN CCTGTGTCCT 180
ATGGGACCTA GTCATCTGTA TGTNAGATTC ACAGAGGAAT TAAAGAGATA AACATGCATG 240
TNCTAAA 247

SEQ ID NO:6685

SEQUENCE LENGTH:37

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07884

SEQUENCE DESCRIPTION:

GATCCACAAC TACACACATC ATAACCACAC CATCAAA 37

SEQ ID NO:6686

SEQUENCE LENGTH:81

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07885

SEQUENCE DESCRIPTION:

GATCTCTGAG GAGTTCCTG GGGACAACG AGCAGCCTCT GGAGAGGGGC CATTAAATAA 60
GCTCAACATC ATTGNACNAA A 81

SEQ ID NO:6687

SEQUENCE LENGTH:237

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07886

SEQUENCE DESCRIPTION:

GATCAGCCTT TCCAGGTGCT TTAGTCGTTT GCCTAGACAC GTTCCTGTCT CCTCTGACAG 60
CTGCAGTTGC TCTGCGCTGC TAGACATGGT GGACATTNA GCAGCCTGAC CTGTGGGGAG 120
GGGGTCTCTC CCGAAGAGTT TCTGTTTTTA CTCAAAATAA TGTTATTCTC AGATGCTTGA 180
TGCAGTGTG GAAATGTGCT CNATTTAATC ATGCAGATAA ACCATTTAAA TGTCAAA 237

SEQ ID NO:6688

SEQUENCE LENGTH:93
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07887
 SEQUENCE DESCRIPTION:
 GATCTCTTGA GCCCAGGAAG CCGAAGCCAC AGTGAGCTGT GATTGCACCA CTGCACTCCA 60
 GTCTGGGTGA CAAGAGTGAG ACCCCATCTC AAA 93

SEQ ID NO:6689
 SEQUENCE LENGTH:62
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07889
 SEQUENCE DESCRIPTION:
 GATCGCAGCA TTGCACTCCA NCCTGGGCAA CAAGAGTGAA ACTCTGNCTC AGAAAAGAGA 60
 AA 62

SEQ ID NO:6690
 SEQUENCE LENGTH:221
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07890
 SEQUENCE DESCRIPTION:
 GATCCTCCTG CTTAGCCTC CCAAGTGCT AGGATTATAG CCACCGCACC TCGTCTTGAA 60
 ATAGCCTTTT AAATGTTCAC CTCAGCTTGC CTCACAGTGG GTCTGTTCTT GGTTCCTCCAG 120
 ATGCATAAAG GAAGACATAT CCCTCCCCTG GGNAGCAAGG CTACAATGGG AGGGAGGGAG 180
 AACATGGGAG CATGTGAATA AAATGGCATT AANTACTGAA A 221

SEQ ID NO:6691
 SEQUENCE LENGTH:210
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07891
 SEQUENCE DESCRIPTION:
 GATCATCAAG AAAAAAGAAA CTTAAATGGA CACTTTTAAT GCTGCAAATN AGCTTGTCGT 60
 GAAGTTACCT GATTGTNTAA TTAGAATGAC TACCACCTCT GTCTGATTCA CCTTCGCTGG 120
 ATTCTAAATG TGGTATATTG CAAACTGCAG CTTTCACATT TATGGCATT GTCTTGTTGA 180
 AACATCGTGG TGCACATTTG TTTAANCAAA 210

SEQ ID NO:6692
 SEQUENCE LENGTH:169
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07892
 SEQUENCE DESCRIPTION:

EP 0 679 716 A1

GATCTGTCAT CTTATAGCA CAACAAAACG AAATGATGGA AATNCTCTTN AGCTCACAAC 60
 ATTTGTTTTN CTTTAAAGT AAATGCAAGT ACCAAAGCTC ACTACTGCGG TTTGCCTGTN 120
 CCTGGNCANT GAGGCGGAGC NCTGTTGTTT TGTGGGGCA CCCCTTNN 169

SEQ ID NO:6693
 SEQUENCE LENGTH:226
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS07893

SEQUENCE DESCRIPTION:

GATCTCTGCT TACCGTTCAA GAGGCGTGTG CAGGCCGACA GTCGGTGACC CCATCACTCG 60
 CAGGACCAAG GGGGCGGGGA CTGCTGGCTC ACGCCCCGCT GTGTCTCTCC TCCNTCCCTT 120
 CCTTGGGCAG AATGAATTCG ATGCGTATTC TGTGGCCGCC ATCTGCGCAG GGTGGTGGTA 180
 TTCTGTCATT TACACACGTC GTTCTAATTA AAAAGCGCAT TATAAA 226

SEQ ID NO:6694
 SEQUENCE LENGTH:31
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS07894

SEQUENCE DESCRIPTION:

GATCTCTTAA ATAAACTTGC TTCTGGTTAA A 31

SEQ ID NO:6695
 SEQUENCE LENGTH:182
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS07895

SEQUENCE DESCRIPTION:

GATCTAAATT TGTTTATTTA AGCTGCAAGN AAGTTACATT AATTTGGAAT GTGTCATCAC 60
 TTGGNCCCAG TATATCAGAT TTTNATTGAG TAAAATGTTA AAAATAATAA GTGTAACCTCA 120
 GATTCTGGAT GTNCGNGTTT ACAATACATT GCCTGTAATA AAAGCTGATT CTGANGTGCA 180
 AA 182

SEQ ID NO:6696
 SEQUENCE LENGTH:203
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS07896

SEQUENCE DESCRIPTION:

GATCCCAACC CTGTGTCCTG CCTGACCCC TGTTCCTCCA CTCGTGGCAC TGTCAGCCCA 60
 GNCCTCCCTA CCGGCGAGAG TCCAGAGTGG GTACAGGAGC AAGGGGCACT GCTGGGGCCT 120
 GATGGCTGAA GGAGACGCCG GCATCCTCGG GGGCCTGGGG AAGTTGTGTG TTGTGCAGTC 180
 AGTAAATCC TCCCACTGCN AAA 203

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5 SEQ ID NO:6697
SEQUENCE LENGTH:51
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07897
SEQUENCE DESCRIPTION:
10 GATCAAATGA AATAATGTAA CGTGAGNATA CAGTATAAAT GATAAAGGAA A 51

15 SEQ ID NO:6698
SEQUENCE LENGTH:65
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07898
SEQUENCE DESCRIPTION:
GATCTCCGGG CAGCCACCAC CTCCTCGGTC TGCCCCNTCA TTA AAAAGTC CTCCTTCCAT 60
AGAAA 65

20 SEQ ID NO:6699
SEQUENCE LENGTH:59
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
25 CLONE:HUMGS07900
SEQUENCE DESCRIPTION:
GATCTAGTGC CTAGTGTTC TTTCTGATG TAATAAAAGG TGGTCTGGCA GAACCTAAA 59

30 SEQ ID NO:6700
SEQUENCE LENGTH:129
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
35 CLONE:HUMGS07901
SEQUENCE DESCRIPTION:
GATCCAGAGC CACAGAAAGA AATGTAGGTG TGAAGTATTA GGCTGCTGTC AGGGNGAGGA 60
TGGCAGATGG AGGCATCAAG CACAAGGAAA ATGCACAACC TATGCCCTNT TATACANNNN 120
GTTTCATGTN 129

40 SEQ ID NO:6701
SEQUENCE LENGTH:39
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
45 CLONE:HUMGS07902
SEQUENCE DESCRIPTION:
GATCTTAAGT TTACAATTAA AACTCAGTA CTCAATAAA 39

50 SEQ ID NO:6702
SEQUENCE LENGTH:56

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EP 0 679 716 A1

SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07903
 SEQUENCE DESCRIPTION:
 5 GATCCCCCG GGCATGGCCT GGGCTGGTTT TGAATGAAAC GACCTGAACT GTCAAA 56

SEQ ID NO:6703
 SEQUENCE LENGTH:31
 10 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07904
 SEQUENCE DESCRIPTION:
 15 GATCCTTTTA AAATAAAAT NTTGATGCAA A 31

SEQ ID NO:6704
 SEQUENCE LENGTH:108
 SEQUENCE TYPE:nucleic acid
 20 TOPOLOGY:linear
 CLONE:HUMGS07905
 SEQUENCE DESCRIPTION:
 GATCAGGAGC CTTCAATAAA ACAGAAATTT TAGGGAAAAC CACAAAAACC TTCGTAAAGT 60
 25 GAATTGCATT AAACATCAAT TATAATAAAA TTTCATATTT TGANTAAA 108

SEQ ID NO:6705
 SEQUENCE LENGTH:29
 SEQUENCE TYPE:nucleic acid
 30 TOPOLOGY:linear
 CLONE:HUMGS07909
 SEQUENCE DESCRIPTION:
 GATCAAAAGG GACAAGCATC AAGCACAAA 29

SEQ ID NO:6706
 SEQUENCE LENGTH:152
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 40 CLONE:HUMGS07911
 SEQUENCE DESCRIPTION:
 GATCATGGGC AAAATCTAGC CACAGTCCTG AGAGTCCAGG CTTCTGGGAT GCCCAGCTGG 60
 GTATAAAAGT CCCTACTAAC CCTGNTTCAA ATTCAGAGGT TTCTTTGGTT NAGAATGCCT 120
 45 CAATGAGATT TTGATACATC CAAGAGCGCA AA 152

SEQ ID NO:6707
 SEQUENCE LENGTH:129
 SEQUENCE TYPE:nucleic acid
 50 TOPOLOGY:linear

EP 0 679 716 A1

CLONE:HUMGS07912

SEQUENCE DESCRIPTION:

GATCTAAAAA ATACAAAATG TAGACAATTA CTATTCAGGT GCTTACTTTT AAGCCAATAT 60
GTAGCAGNGN AAAACTAATT TCTCTGTGGC AGTATTTTAA TTTTGGNAT GTCCNGGNN 120
TTAACTGAN 129

SEQ ID NO:6708

SEQUENCE LENGTH:118

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07913

SEQUENCE DESCRIPTION:

GATCCGCACT GGGGTTCTG CAGGGTGGGG NCAACCACAG CCTGTCACAA GCTCACCGTC 60
AGCCTCTNTG GNGCCATTGC GCAGCATGAA GTCCCTATCA CCCACATAAT AATGNGNN 118

SEQ ID NO:6709

SEQUENCE LENGTH:149

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07915

SEQUENCE DESCRIPTION:

GATCTTTCCC AGTATCTNNA GTGGGTGACC ACACTTGTC GTGGGAGNCT NTGAAACTAC 60
CCTATCGNCT CCTAAGGGC GGGATGAACT GCTTTGTGAC TTGGAAAGGT ACGCTGCTGG 120
CCAGCATTGG AGANGAAGCT NCTGAGCAN 149

SEQ ID NO:6710

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07916

SEQUENCE DESCRIPTION:

GATCAGGTGG TCAAGGTGCT GCACGATGCC CAGCAGCAGT GCCGAGACGG CCACCCGGTT 60
GTGGTCAACA TCCTCATTGG GAGGACGGAC TTCCGCGATG GCTCCATTGC TGTATAGGGC 120
CTTGTTGGGTC AGNACGCTTN GCTGCCCTCC TACCCCTGGA CTGTNTCAA NTGGTTTNG 180
AGTCTCATNA TTGCTTACCC CTGGNGCTNA TCCCATGAGG NCCCANTGNA CTTCAN 236

SEQ ID NO:6711

SEQUENCE LENGTH:173

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07917

SEQUENCE DESCRIPTION:

GATCCGCAAA GAGGAAGACC GCCTCTTCAT TCTCAGGACC NTCACCTATT GATGGGAATN 60
TGTGCGGGCT CAGGGTTCTT NNACACACTA GNTGTGGGAA GCCATAGGAG CCTCCAGATG 120
GGGGCTGGCC TCTCTTGCCC AGCNAGNGGG CAGGGCCTGT GGGNTGGTGA ATN 173

5 SEQ ID NO:6712
 SEQUENCE LENGTH:48
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07918
 SEQUENCE DESCRIPTION:
 GATCACGNC A TGGCACTTCA GCCTGAGCGN CAGAATGAGA CTATTAAA 48

10 SEQ ID NO:6713
 SEQUENCE LENGTH:50
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 15 CLONE:HUMGS07919
 SEQUENCE DESCRIPTION:
 GATCGTGTCA CTGAACCTCCA GNCTGGGTAA CAGTGCGACT CTGTCTCAAA 50

20 SEQ ID NO:6714
 SEQUENCE LENGTH:156
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07920
 25 SEQUENCE DESCRIPTION:
 GATCTTTGTT TAAATGCCAA AATGTACTTA AATGAGTTAC TTAGAATGCC ATAAAATTGC 60
 AGTTTNATGT ATGTATATAA TCATGCTCAT GTATATTTAG TTACGTATAA TGCTTTCTGA 120
 GTGAGTTTAA CTCTTAAATC ATTTGGTTAA ATCAAA 156

30 SEQ ID NO:6715
 SEQUENCE LENGTH:208
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 35 CLONE:HUMGS07921
 SEQUENCE DESCRIPTION:
 GATCGATACC CCCACCCCTC CACTNGCCAG CCTGGGGGTG CCCTGCCTGC CCTCCTGGTA 60
 CTGTTGTCTT CCCCTCGGCC CNNTCACATG TGTATTCAGC AGCCCTATGG CCTTGGCTNT 120
 GGGCCTGATG NGNAGGGGTA GAGGGAAGNT GAGCATAGCA CATTTTCCTA GAGCGNGAAT 180
 40 TGGGGGNAAG CTGTTATTTT NATATTAN 208

45 SEQ ID NO:6716
 SEQUENCE LENGTH:57
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07922
 SEQUENCE DESCRIPTION:
 50 GATCACGACA CTACACTCCA GCCTGGGGGA CCGGGCAAGA CTCTGTCTGT CTTTAAA 57

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SEQ ID NO:6717
SEQUENCE LENGTH:333
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07923
SEQUENCE DESCRIPTION:
GATCTTGAAA AAAAAAGCAA AAGCTTAAAT ATTTGATACA AGTTTACTTA GCTACAACAT 60
ACTTTACATT GTTGCCCTTA GTTATCTCAC AGGCACTGAC ATTTTATATT TAGAAAATAC 120
TTTAAATCTT NCTAATCTTT TTTTGAAAT ATTAGTGTCC ATTCTGTATG ACTCGCTAAC 180
CTACTTTGCA AGGCTTTGGG CAACATTTTA GCTCATTAACTTCAAGATGA TGTGTCATCT 240
GTATAGGTCA AAGAATGGGN CTTCTGAACT GAGGAATTTT GCTGTTGACA GCCAAAGTNT 300
AGTGTTACAAG GTTTGATGNA ACTNGNTTAT GTN 333

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SEQ ID NO:6718
SEQUENCE LENGTH:57
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07925
SEQUENCE DESCRIPTION:
GATCTTGAC TTCCAGCCT CCAGAATTGT GAGAAATAAA TTTCTGTTGT TGATAAA 57

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SEQ ID NO:6719
SEQUENCE LENGTH:63
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07927
SEQUENCE DESCRIPTION:
GATCTTTGCT TAATAAGANG AAAAAAGAGG CAAGGAGAAA ACGAAGAGAA AGAAATTTTG 60
AAA 63

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40

SEQ ID NO:6720
SEQUENCE LENGTH:22
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07928
SEQUENCE DESCRIPTION:
GATCCNGTGT TCTTCTGTGA AA 22

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SEQ ID NO:6721
SEQUENCE LENGTH:186
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07932
SEQUENCE DESCRIPTION:

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5 GATCCGGCTT GGACAGGCAC CTGAGATGGT GCCAAAGTGC AGCTGACTCT TCCCACGACA 60
GCCCTGCCCT TCCCATGAGG CAGGCTCTTC AGTGAGTGTT TGAACGTAAT TATGTAGTTT 120
TCTGTTTAAT TGAAAAAGNG AGCTATGCCT TTTTTCCTT TTGGANGTAA AGCAGCTAAA 180
ANCAAA 186

10 SEQ ID NO:6722
SEQUENCE LENGTH:45
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07933
SEQUENCE DESCRIPTION:
15 GATCCAGGTG TTTGTTTCTA ACTTCTGTAA TACATACAAT GCAAA 45

20 SEQ ID NO:6723
SEQUENCE LENGTH:173
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07934
SEQUENCE DESCRIPTION:
GATCATGGTG ATTTNACTGC TGCTTGTTGGN TATCGTGGTT GTTGCACTCT GGCCGACCAA 60
25 CTGATGGCAG TAAAGAGACC ACCAGCAGTG ACACCTGCCA ATNACAGATG CAAGCCCAAC 120
ACCCTNTTGG TACGCAAAAC CTNATCTCAA TAAATCCCC CAAAGCTCTG AAA 173

30 SEQ ID NO:6724
SEQUENCE LENGTH:61
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07935
SEQUENCE DESCRIPTION:
35 GATCCAAGC CTGCATTGT AAGCCACAG TAGGCACTCA ATAAATGCTT GTTAAAGGAA 60
A 61

40 SEQ ID NO:6725
SEQUENCE LENGTH:269
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07936
SEQUENCE DESCRIPTION:
45 GATCCTGCAG AAGAATAACC TGAATCTGCT CAGAGACCTA AGCTGTGCAC ATTGCCCATA 60
GCCTCAGGAA CAGTCCAGAC TGGGGCGGTG TGGTCATATT ACACAGNNAG GAGGGTGATT 120
CAGAGTTCAT GAATATCATT GCCAATNAGA TTGGGTCAGA GGAGACCCTC CTGTTCTTAA 180
CTGTGCCCGA TGAGNAAGNT GGTGGNCTNT TTTTACTGGC AGGGCCACNA NCGCTCATGT 240
GGAGACCCNG GGGCCAGGG TGGCTGATN 269

50 SEQ ID NO:6726

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EP 0 679 716 A1

SEQUENCE LENGTH:229
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 5 CLONE:HUMGS07937
 SEQUENCE DESCRIPTION:
 GATCCCTCAT CCCTGAAATT GAGTTTATGT AGTCATTTTA CTTATTTNAT TCATTAGCTA 60
 ACTTTGTCTA TGTATATTN TAGATATTGA TTAGTGTAAT CGATTATAAA GGATATTAT 120
 10 CAAATCCAGG GATTGCATTT NGAAATTATA ATTATTTCTT TTGCTGAAGT ATTCATTGTA 180
 AAACATACAA AATAAACATA TTTNAANACA TTTGCATTTN ACCACCAAA 229

SEQ ID NO:6727
 SEQUENCE LENGTH:50
 15 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07938
 SEQUENCE DESCRIPTION:
 20 GATCCATGAA CTCTGACCCC TCCCAGTAA AGGCTTCTGT AGAGAGCAAA 50

SEQ ID NO:6728
 SEQUENCE LENGTH:122
 SEQUENCE TYPE:nucleic acid
 25 TOPOLOGY:linear
 CLONE:HUMGS07939
 SEQUENCE DESCRIPTION:
 GATCCCCGCA CCAGCCTCTC CTCTCTTTCC CTGCAACCTG TTACCTCACA CAGCTGCTCA 60
 GGAACAGCAG AAATAGTAAA ACTCTTCCAT ATATGTGGCA CCTCAGCCGC CCCTCCNTTA 120
 30 AA 122

SEQ ID NO:6729
 SEQUENCE LENGTH:213
 35 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07941
 SEQUENCE DESCRIPTION:
 GATCAGGAAG TTCTTAGATT CTTGGATGAC AGATGCATGT TGATGCCCTA TGGAGATGTC 60
 40 CTTNTGTTTT GAGGTCACTG AGGTAGGAAG ACCTGTCTAC TCTTGGTTTC ACCACTAGAA 120
 CAGTCTTGGG CTGGATGGGT TATAGAGCTG AGCGGCTGTA ATGGTTCTNT TTTTACATTA 180
 ACAAAAACAA TTA AAAACAC CAAAACAAC AAA 213

SEQ ID NO:6730
 SEQUENCE LENGTH:85
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07942
 50 SEQUENCE DESCRIPTION:

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EP 0 679 716 A1

GATCCCAGGN ATTCAAGGTT AGAGTGAGCT ATGATTGCAC CACTGTACTC CAGCCTGGGC 60
 ANCAGAGANN GACCTGTCTC ACAA 85

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SEQ ID NO:6731
 SEQUENCE LENGTH:313
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS07944

SEQUENCE DESCRIPTION:

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GATCCAGCTG GAATTTGAGG ACACTGGAAC AATGAGGTCA GCTTCCAAAA CAAAACAAAA 60
 CAAAACTTTA AACATCTGTG TAAGTACAGG GTGGAATATA ATGAATCCA GGTACCCATC 120
 ACTTAGGTTT CACAATTAGC CATGGCCAAT CTTGTGTGAT AGGTATGTCC CTACCTATTT 180
 CTCCCCTGCC CTNATTGTGA AGTAAATATT TTCCTAAAAG GTCTTTTAA AATTAAGTTA 240
 TAACCATGCC ATCATGTAC AAANNTAATG CTATTANNTT CTTANTNTN ATCAAATNTT 300
 CNNGNCTNAN NTN 313

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SEQ ID NO:6732
 SEQUENCE LENGTH:73
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS07945

SEQUENCE DESCRIPTION:

GATCACTGA ACCTAAGAGT TTGAGGCTGC GCACTGCACT CTGGCCTGAC AGAGCGAGTC 60
 ACTGTCTCTT AAA 73

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SEQ ID NO:6733
 SEQUENCE LENGTH:257
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS07946

SEQUENCE DESCRIPTION:

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GATCTGAATT CTAATGCTGG CTTGTGCCTC TAACTATGTG GTTTGGTCAT TATAGATAAT 60
 GCCCAGTTTA ANTTTCCCA TCTTTGAAAA GGAGATAATA TGTNATCTCT TGGGAGTAGT 120
 TCTGAATATG AAGTGTGTTG ATACAAGAAG CACTGACAAT GTTCTGTNN NNNAAATTTA 180
 AAACCTGGCCT GGTTTGCCTT TTTAATCAAG NGNGCTTAAC AGGTAAAAAN TTGAATTAG 240
 NCCTAAAAAN AAAAACN 257

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SEQ ID NO:6734
 SEQUENCE LENGTH:148
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS07948

SEQUENCE DESCRIPTION:

GATCCTTTAG CCTCCTGGNA GTGCCCCAGT TGTACCCCTT ACACACCCCT CTTGGCATTG 60
 AGTGCCAGTC CTCTGCCAGG CTNTGTGTTA CAAGTTGGGG NGGGCGGCAA AGTACCGAAT 120

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TAAAGATGTC AGTCTAAAG GAGGNAAA

148

SEQ ID NO:6735

SEQUENCE LENGTH:289

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07949

SEQUENCE DESCRIPTION:

GATCATATCC AATTCATATG GAAGTCCCGG GTNTGTCTTC CTTATCATCG GGGTGGCAGC 60
 TGGTTCTCAA TGTGCCAGCA GGGCCTCAGT ACCTGAGCCT NAATCAAGCC TTATCCACCA 120
 AATACACAGG GAAGGGTGAT GCAGGGAAGG GTGACATCAG GAGTCAGGGC ATGGNNTNGN 180
 NAGATGANTA CTTTGCTGGA TGAAGCAGGC TGCAGGGCAT TCCAGCCAAG GGCACAGCAG 240
 GGGACAGTGC CGGGAGGTNT NGGGTAAGGG AGGGCAGTNA CNTNAGAAA 289

SEQ ID NO:6736

SEQUENCE LENGTH:114

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07951

SEQUENCE DESCRIPTION:

GATCAGGCTT TTAATACTC ATTTACAAGT TTTCTATCCT CTTTCAGTGT TAAAGTAGAA 60
 AGTAAAAAGA GTATCTNATA CATGCATGAA ATTAAGCAT ATACCAAATG CAAA 114

SEQ ID NO:6737

SEQUENCE LENGTH:229

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07952

SEQUENCE DESCRIPTION:

GATCACCCAG CATCCTTCCC CACCCAGCT GTGTATTTAT ATAGATGGAA ATATACTTTA 60
 TATTTTGTAT CATCGTGCCT ATAGCCGCTG CCACCGTGTA TAAATCCTGG TGTATGCTCC 120
 TTATCCTGGA CATGAATGTA TTGTACACTG ACGCGTNCCC ACTCCTGTAC AGCTGCTTTG 180
 TTTCTTTGCA ATGCATTGTA TGGCTTTATA AATGATAAAG TTAAAGAAA 229

SEQ ID NO:6738

SEQUENCE LENGTH:295

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07953

SEQUENCE DESCRIPTION:

GATCTCTTGT NCTTTAATTT TAGGGTCTTG TTCCAGGACT CAAATCAGTA ACTTGGTGAT 60
 TACAAGGTGC TGAATGTGTT GGTAAACATA TCGCAATACA CCTCAAGGAA AAGGTTTCAGA 120
 TTTNATTTT TAAATATTT NCATTTTTC CTTGAATTN ATATCCGTTT GTCCACTCGT 180
 ACATGCCTAG CCTACAGAAG GGGATATATA TNATGANATG GTCATTTTCC TGAAGNGNAT 240
 ATTTTGCTTG AAATGCAAAG GNCTGAAAGN GNTTTGTAGG TTGTTGGTTT TTTCN 295

EP 0 679 716 A1

SEQ ID NO:6739

SEQUENCE LENGTH:85

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07954

SEQUENCE DESCRIPTION:

GATCATAACA CTACTCCAGT CTGGGTGATG AAGTGAGACC TGTCTACAAA AAAAAGAAGC 60
CCAAACTAAA CCTAAGCAA GCAAA 85

SEQ ID NO:6740

SEQUENCE LENGTH:145

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07955

SEQUENCE DESCRIPTION:

GATCAGGCTG GTCTCAAACT CCTCGGTTCA AGCAATTGCG CCACCTTGGC CTCCCAAAGT 60
GCTGGGATTA CAGGGGAGCC ACTGCACTGG CCTTCATTGT CTTTTTGCTG CACAACCTAA 120
AAAACCAAGT ACCCTGTATT GGAAA 145

SEQ ID NO:6741

SEQUENCE LENGTH:81

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07956

SEQUENCE DESCRIPTION:

GATCCTAACA TGTATTGATT GTAAAAGTGA AATATGTAAT AGCCACACTT CACTGTTTAA 60
AAATAAAAGT GCAATTTCAA A 81

SEQ ID NO:6742

SEQUENCE LENGTH:50

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07957

SEQUENCE DESCRIPTION:

GATCTTGTCT CCAATTAAAC CGAGGCTTTC ACCGATAAAA AAAAAACAAA 50

SEQ ID NO:6743

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07958

SEQUENCE DESCRIPTION:

GATCTGATGA AGTATATNTT TAATTGCCAT TTTGTCCTTT GATTATATTG GGAAGTTGAC 60
TAAACTTGAA AAATGTTTTT AAAACTGTGA ATAAATGGAA GCTACTTTNA CTAAA 115

EP 0 679 716 A1

5 SEQ ID NO:6744
 SEQUENCE LENGTH:175
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07959
 SEQUENCE DESCRIPTION:
 GATCGGGCTA CTACAAAGTT CTGGGAAAGG GAAAGCTCCC AAAGCAGCCT GTCATCGTGA 60
 10 AGGCCAAATT CTTCAGCAGA NGAGCTGNGG AGAGATTAAG AGTGTGGGG GGGCCTGTGT 120
 CTTGGTGGGT TTAAGGCNCA TTGGNGGNA NTTCAATTNAA TTNTACTTC TTTN 175

15 SEQ ID NO:6745
 SEQUENCE LENGTH:61
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07960
 SEQUENCE DESCRIPTION:
 20 GATCAAAAGT AACACGTNNA GACTCTGAGC TTAATCCATT AAATGGATTT NAGCATCTAA 60
 A 61

25 SEQ ID NO:6746
 SEQUENCE LENGTH:118
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07961
 SEQUENCE DESCRIPTION:
 30 GATCATNAAC TACTACTGGTT ATNTGGAAGT CTAGGTTCTG GTCCTGCTAC CCCTTTAACT 60
 TGAGTNATTT ACAAGTCTGT TTAAGGTTT CTAGACATAC ACTGGTTTGN TTTTAA 118

35 SEQ ID NO:6747
 SEQUENCE LENGTH:140
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07963
 SEQUENCE DESCRIPTION:
 40 GATCGCCCAA CGTTTTTGGN TTATAGAATT ATTATTCCT GCTTCTTTC TTTGGGTCTT 60
 TTGAATTCT TTGGTTTCGT NTTAAGAAG TAACCCANCA TTTCTACAA CACTAAATAA 120
 AATGGTACTT ACCTTCAAA 140

45 SEQ ID NO:6748
 SEQUENCE LENGTH:68
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07964
 SEQUENCE DESCRIPTION:
 50

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EP 0 679 716 A1

GATCCCCGTT CCACCCAAG AGAACTNGCG CTCAGTAAAC GGGAACATGC CCACTGCAGA 60
CACGTAAA 68

5 SEQ ID NO:6749
SEQUENCE LENGTH:79
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07965

10 SEQUENCE DESCRIPTION:
GATCCCCCT GCCTATCAGC TTCTCCTGTG GNGCCTGTTC CTCACTGGAA ATTGGCCTCT 60
GTGTGTGTGT GTGTGTGTN 79

15 SEQ ID NO:6750
SEQUENCE LENGTH:28
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07966

20 SEQUENCE DESCRIPTION:
GATCGAAAGG GAGGCAGGTT TGCCTAAA 28

SEQ ID NO:6751
SEQUENCE LENGTH:294
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07967

30 SEQUENCE DESCRIPTION:
GATCTCAAGC CAGCCCNCTC CAGCTCATGA CACTGTTTGG CCTTTCTTGG GGAGAAGGCG 60
GGGTATTCCC ACTCACCAGC CTTGGCTGTC CCATGGGGAA ACCCTGGAGC CATCCCTTNG 120
GAGCCAACAA GACCGCCCCA GGGCTATAGC AGTAAGAACT TTAAAGCTCA GGAGGGTGAC 180
GNCCAGATNC GNCTGCTGGG AAGAGCTCCC CTNCACAGCT GCAGCTGAAT GCATTAGGGC 240
35 TACCGNAGGN CCCGGACTTA NCAAACTTGG NCNACAANNG TTCCTAGGGN TTN 294

SEQ ID NO:6752
SEQUENCE LENGTH:160
SEQUENCE TYPE:nucleic acid
40 TOPOLOGY:linear
CLONE:HUMGS07969

SEQUENCE DESCRIPTION:
GATCCCCAAG TGTGAACAGT CTGAAAAGGG CTTTTTGCTT GCTGCAGGGA CCTGAGAATT 60
45 GAGAAACAGC TGTGAAACTT TGAACCTGG CTGGAAGGTC CTGGTATTGA CTGTGGCANG 120
AAAACGGGGG AGCTAATCTG TAATCTGCTT AGACGCCAAA 160

SEQ ID NO:6753
SEQUENCE LENGTH:98
50 SEQUENCE TYPE:nucleic acid

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EP 0 679 716 A1

TOPOLOGY:linear
 CLONE:HUMGS07971
 SEQUENCE DESCRIPTION:
 5 GATCAGATTC ACGGACCCAG AGCTTTTCCA TGTGTTTATA TTGTAAATAT TTTTNATTTC 60
 ATCAAATTAT TTATTCATTA AAAGAAATTT TTGTGAAA 98

SEQ ID NO:6754
 SEQUENCE LENGTH:35
 10 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07973
 SEQUENCE DESCRIPTION:
 15 GATCCTGTCT CTTAGGAAAA AAGAAAACCT CTAAA 35

SEQ ID NO:6755
 SEQUENCE LENGTH:64
 20 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07974
 SEQUENCE DESCRIPTION:
 25 GATCAAAGAC CCTGCCTCTA TTNACCCCG CACTGACTGA ATAAAGCTCC TCTGGCCGTT 60
 NAAA 64

SEQ ID NO:6756
 SEQUENCE LENGTH:38
 30 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07975
 SEQUENCE DESCRIPTION:
 35 GATCATCTGA GCTGAAGAAA TAAAAAACA CACACAAA 38

SEQ ID NO:6757
 SEQUENCE LENGTH:56
 SEQUENCE TYPE:nucleic acid
 40 TOPOLOGY:linear
 CLONE:HUMGS07976
 SEQUENCE DESCRIPTION:
 GATCATTCAT AACTATATT TATTTTNC A TTAANTATT TTAACCTT TGAAA 56

SEQ ID NO:6758
 SEQUENCE LENGTH:105
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07977
 SEQUENCE DESCRIPTION:
 50
 55

EP 0 679 716 A1

GATCTTTCAT CAAGATTTTA CCTGCATTTA TGTCTAAGGG TCCCTGATAA GGCTTGAGGC 60
ATGTAACCTA TGTCTAATTA AAAATGATTT GTTGAATGAA NCAAA 105

5 SEQ ID NO:6759
SEQUENCE LENGTH:65
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07981

10 SEQUENCE DESCRIPTION:
GATCTACAGA AGCTTTNATT CTCTTACCTT AACAGTAGTA ATAAAGTTAA CATTNTCACA 60
TCAAA 65

15 SEQ ID NO:6760
SEQUENCE LENGTH:106
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07986

20 SEQUENCE DESCRIPTION:
GATCTGTGTG TTGTGGGAAG AGAATTTTCA ATATGTAAC TACGAGCTGT AGTGCCATTA 60
GAAACTGTGA ATTTCCACAT AAATCTGAAC ACTTGTCTTT ATTAA 106

25 SEQ ID NO:6761
SEQUENCE LENGTH:106
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07987

30 SEQUENCE DESCRIPTION:
GATCTCATGG CTTTGATTGN TTTGGGCTGT TCAAAATGTT TATTTGNAAA ACGTATACAT 60
TAATAAACTT AACAAAGCGN TATAAAATAC AGCGNAATCA CCCAAA 106

35 SEQ ID NO:6762
SEQUENCE LENGTH:335
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS07988

40 SEQUENCE DESCRIPTION:
GATCGAAAGG GCCACCATGA ACTTGATACG TCCGTGTGTC CCAGATGCTN NCATTAGTCT 60
ATATGGTTCT CCAAGAACT GAATGAATCC ATTGGAGAAG CGGTGGATAA CTAGCCAGAC 120
AAAAATTTGAG ANTACATAAA CAACGCATTG CCACGGAAAC ATACAGAGGN TGCCTTTTCT 180
45 GTGATTGGGT GGGATTTTTT CCCTNTTTAT GTGGGATATA GTAGTTACTT GTGCCAAGAN 240
TAATTTTGGC ATNATTTCTN TTANTATCAA CTCTGANGCT AACTTGTACT AATCTGAGAT 300
TGTGTNTGNT CCNANTAANC GTGANGTGAA CCTGN 335

50 SEQ ID NO:6763
SEQUENCE LENGTH:169

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SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07989

SEQUENCE DESCRIPTION:

GATCTTGGAG ACAGGCCATC CATCCTGGAG CCTCATGGAA CAGGATGATG GCACTGAGAA 60
AGCCAATGAC CGAATCTCTT TTCTCTGTAA AAATGTAGAC TGAAGGCCA TGTGTATTTT 120
CCTATGTGCT GTAGCTCTCC TTTGGAAATA AATCACAGGC ATCTGGAAA 169

SEQ ID NO:6764

SEQUENCE LENGTH:212

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07990

SEQUENCE DESCRIPTION:

GATCTGGGCT GCAGGAGCTG GGGCCACCCA CAGCCCCCCT ACCGACCTGG TGTGGAAGGC 60
ACAGAACACC TGGGGCTGCG GGAACAGCCT GCGTACGGCT CTCATCAAAC TCACTGGGGA 120
AGAAGTGGCC ATGCGGAANT GGTGCGCTCA GTGACTTNTG GTTNAGGACG NCGNGGNTTG 180
AGGATTGAGA NTACCNATTT CATTNACCAC NN 212

SEQ ID NO:6765

SEQUENCE LENGTH:141

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07991

SEQUENCE DESCRIPTION:

GATCATACCA CTGCACTCCA GCCTGGGCGA CAGAGAACCT CTCTAAAAAA AAAGGAAAAAT 60
NAAAAATAAA TGGGGGCGA AGCTGAGCCA AGCAGAGGCG GGCAGCTCCT CCTCCAGGGC 120
CCACCTGGCC TGCTGGGGAA A 141

SEQ ID NO:6766

SEQUENCE LENGTH:360

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07992

SEQUENCE DESCRIPTION:

GATCTGTTAT NAAACGAAAC ACCCCCCGTG TTAATAACTT GGTATGAAAT CTGTTTTTAT 60
GAGCCGGGCC CCCTGTGCCT CTAGTATACT TGTATTGACT CTCATAGTTA CCCTTTTAGT 120
TTTACTGTGT TCTGTGAAAA TTTGTAATTG GTTGNGAATC ACTGTGGGCG TCCATTCTTA 180
TTCAACTAAA TCTCCACAGG TTTTGTGAGC TGGTGTGGAT TAGTTTAACT CTTGTATTCA 240
ACCATTAGTG CTACCACCTT CTCACATTAC AATACANTTN CTGGAAGCAA GTACTGCATT 300
TCCTATGCAA CAAAAAAGG GCAAAANTAC ANANATTGCT AAATGATAAA CAAANACTTN 360

SEQ ID NO:6767

SEQUENCE LENGTH:88

SEQUENCE TYPE:nucleic acid

EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS07994

SEQUENCE DESCRIPTION:

5 GATCAAAAGG GCTATGGGAA GGGCAGACCC CGCCAATGAT TTCTCTTCAC CTGTCTTAAG 60
ATTAAATAAA AAAGAGTGTC CTGGCAAA 88

SEQ ID NO:6768

SEQUENCE LENGTH:65

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07995

SEQUENCE DESCRIPTION:

15 GATCTTGCCA AGAACCATCA CGTGTTAATT TAGTTGCTTA AACAAAAGGT GTTCTGTTTC 60
TTAAA 65

SEQ ID NO:6769

SEQUENCE LENGTH:246

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07997

SEQUENCE DESCRIPTION:

25 GATCAGTGGT GAAATATAGT GATTTTNACC TGTGCTTCCA TTCTGAAGTT CTGGAAAGAA 60
GTACTGGATG GACTGAAGTC CAGGACAACG TTCCAAAGAA AGGCAGAGTC CAGGTAGGCT 120
TGGAGGACCA AGCCCTGGAT GAGCACTGGA GGGCAGAGGC CTCAGTGTCC AGCACTGTGC 180
CCTGCACATG GAAAGCCCCT ACGTTTGTGG AATNAATGAN TANTAATAAT ATTTTNATNA 240
GTGAAA 246

30

SEQ ID NO:6770

SEQUENCE LENGTH:23

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35 CLONE:HUMGS07998

SEQUENCE DESCRIPTION:

GATCCTGTCC CTGCCCTGCC AAA 23

40

SEQ ID NO:6771

SEQUENCE LENGTH:46

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07999

45 SEQUENCE DESCRIPTION:

GATCTGTATA TCCTCCAGTC CAAGATTAAA GAGGCGGACT GTGAAA 46

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SEQ ID NO:6772

SEQUENCE LENGTH:108

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EP 0 679 716 A1

SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 5 CLONE:HUMGS08000
 SEQUENCE DESCRIPTION:
 GATCCAACT CATTCTTCT GTAACCTCAT GATGACGTAT AACNNTTCC ACCTCACTNG 60
 GAGGTTGGNT CTNCATTCTG AAGGCTTCTA TGTATACATA TTAAATAN 108

10 SEQ ID NO:6773
 SEQUENCE LENGTH:218
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 15 CLONE:HUMGS08001
 SEQUENCE DESCRIPTION:
 GATCAACGAC GACCTTTTTC CTTTNNATAC TAAAGTAAGA AATAAGAATG TNAGCCCAAA 60
 CTGCACTATT TTGCAGACCC CTACCATTTT ACAAAGTGGT CAGAGTGGAA AATCCACCA 120
 GGGCCTGAGC TGTGAGAAAC ATCCTGTCAG GCAGGNCCCA GGNCTNAACC CCTGGCTGCA 180
 20 CTAANTTCT TCATNATCAN CAGCCTAACA NACCGTCN 218

SEQ ID NO:6774
 SEQUENCE LENGTH:38
 25 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08002
 SEQUENCE DESCRIPTION:
 GATCAACAGT GCAGAGAATC TAGCAAGTAT AAAAGAAA 38

30 SEQ ID NO:6775
 SEQUENCE LENGTH:252
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 35 CLONE:HUMGS08003
 SEQUENCE DESCRIPTION:
 GATCTGCAAC ATGAANCCCG AGGCATGGGT TGGTGTGATG CCAAGGCAAA GTGGTGAGGA 60
 GAAAACAGGA AACGGNCTTT CTCTGAATTG GTAAATGGGA AAGAAGTGAG CAACTTAAGA 120
 40 TTGTCACANT TAATCACAAG TGTACAGGAT TAGACTGGGT TTATATTAA CTCTTGCTTC 180
 ATAGGTGTAC CATTTAAAGN GTGTTATNTA NTGCTAAGAA NTAAGTCTT TNATAAAGCT 240
 TATTNNNNAA TN 252

SEQ ID NO:6776
 45 SEQUENCE LENGTH:34
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08004
 SEQUENCE DESCRIPTION:
 50 GATCAAAGGG AATAAAGAGA ACTCTTGGCT GAAA 34

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EP 0 679 716 A1

SEQ ID NO:6777

SEQUENCE LENGTH:107

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08005

SEQUENCE DESCRIPTION:

GATCATATNC TTTTCTNTT TTGTTCTTA CAATATCAAT CTAATTTAAT ATTCTCTTGT 60

GAGAACACAA ACATNNGTAA ATTGCTCAGT AGTGGCAGCA GTAAGGN 107

SEQ ID NO:6778

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08006

SEQUENCE DESCRIPTION:

GATCAAGGTT TGTNTGCCA TTACCTTTCC TCTGCCTGAA AGACGTGTCT CAAGAAAAAT 60

AAATTCTATT TNAGATGCAG GTACTNATAN TAATTCTAAG ANTTGATATC AN 112

SEQ ID NO:6779

SEQUENCE LENGTH:140

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08007

SEQUENCE DESCRIPTION:

GATCAGAGNA AACGNCTTTA ACNCCACCAT TAGCACCCAA AGCTAAGATT CTAATTTAAA 60

CTATTCTCTG TTCTTTCATG GGGAAGCAGA TTTGGGTACC ACCCAAGTAT TGACTCACCC 120

ATCAACAACC GCTATGTAAA 140

SEQ ID NO:6780

SEQUENCE LENGTH:173

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08008

SEQUENCE DESCRIPTION:

GATCAATCTC ATATTCATTC CCTGGGATGT TTAGTTACCA GTTTTCCCAA AGTGTTCCTGG 60

TAGCATCTAC CATATTTNAT CAAATCTGTG ATTCCTTTGA TTATNATATG AACCATTATT 120

TTATGTATCA TTAAGAAAAA ATACTGCCAA TAAACTCTG TCATGNNAAAC AAA 173

SEQ ID NO:6781

SEQUENCE LENGTH:186

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08009

SEQUENCE DESCRIPTION:

EP 0 679 716 A1

5 GATCCAAGTT GAGATTTTAA TTCTGTGACA TTTTACAAG GGTAAGATGT TACCACTACT 60
TTAATTATTG TTATACACAG CTTTATGATA TCAAAGACTC ATTGCTTAAT TCTAAGACTT 120
TTGAATTTTC ATTTTAAAA AAGATGTACA AACAGTNTT GNAATAAATT TNAATTCGNA 180
TATAAA 186

10 SEQ ID NO:6782
SEQUENCE LENGTH:102
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08010
SEQUENCE DESCRIPTION:
15 GATCCATTTT TNATATGTCT TGAAGTACTG TGTCTAGTGG GCAAATGTCA TTGTTACCTC 60
TGTGTGTAA GAAATAAAAA ATATTNCTA AAGGTCTGTA AA 102

20 SEQ ID NO:6783
SEQUENCE LENGTH:198
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08011
SEQUENCE DESCRIPTION:
25 GATCAAGTAG ATTTTAAAA AATCAGAGTC AATTAATTTT AATTGAAAAT TTCTCTTATG 60
TTCCAAGTGT ACAAGAGTAA GATTATGCTC AATATTCCCA GAATAGTTTT CAATGTATTA 120
ATGAAGTGAT TAATTGGCTC CATATTAGA CTAATAAAAC ATTAAGAATC TTCCATAATT 180
GTTTCCACAA AACTAAA 198

30 SEQ ID NO:6784
SEQUENCE LENGTH:278
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08012
35 SEQUENCE DESCRIPTION:
GATCAGAGTA AACNTGGAG CTAGATTGAT TACAGAGTGC AAGGACTAGG CACCCCGGGA 60
TTGGAGAGCA TCCTTGAAG CAAGGGTTCT TCATTATTT ATAAAAATTT NATTCCTAC 120
TAGAAGCCCA GCTAAGAGTA TGAAGCAATT AAGACAACAN TCTTTGCTCA AGAATCTCCT 180
AGACAATCCT GATTCAAGCA CCAGAAACAA AGGGNNAAGA AACCTCCCAG TCTNGTGNG 240
40 NAAGTNGTAC ACATCNTGTC AACAGNTAGG TTNTTTN 278

45 SEQ ID NO:6785
SEQUENCE LENGTH:339
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08013
SEQUENCE DESCRIPTION:
50 GATCCCATGT NAGCTACACA GTGCAGAGGC TCTTGATGGT GGAATAAGCA ATTCCTCCC 60
TCGTGCGCAT CTCAGAACCC ATCGGTAGGC AAAGGAAAAAT ACGCTCAGGT GGTGTGNGN 120

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EP 0 679 716 A1

5 NAGNCTGTNT CAGGCCTACG GAGTCAGCCA GTGGCTAGCG CAAGACCAGT CACTCCCTCT 180
GCNTTCAGGC TTCTTTCAAT TTCATTATCA TCAAGCAGGA ATTATGTCGT AAGTCACTGA 240
CCCTAACTGC AGACCATGAA GTAAATTATG TAACTAGGTT TTTNNTTCT CCAGTGGTGA 300
CCACCNNCNC NCATNCCCCG GTNANAACCT GGGTTTTTN 339

SEQ ID NO:6786
SEQUENCE LENGTH:80
10 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08014
SEQUENCE DESCRIPTION:
GATCGCCTAT TACTGACAGT CTCATTGTAG CTCTAAAAAG CCTAATGTAT CCACTGTGGA 60
15 ATAAACTCCA TAGACTCAAA 80

SEQ ID NO:6787
SEQUENCE LENGTH:279
20 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08015
SEQUENCE DESCRIPTION:
GATCTTGAAG AGACCGCTGG CAGCACCAGT ATTCCTCAAGA GGAAGAAGTC TACACCCAAG 60
25 GAGGAAACAG TTAATGACCC TGAGGAGGCA GGCCACAGAA GTGGCTCAA GAAAAAGAGG 120
AAATTNTCCA AAGAGGAGCC GGTGAGCAGT GGGCCTNNAG AGGCGGCTNG CAAGAGCAGC 180
TCCAAGAAGG NAGGAAAAAG TTCCNTTAAG CATTNCCNGG GAGNTTTGAA TTCAAAATTG 240
GCATTNTTN TTTGGGGTT GGGNNATTCC CTGGCCCN 279

30 SEQ ID NO:6788
SEQUENCE LENGTH:192
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
35 CLONE:HUMGS08016
SEQUENCE DESCRIPTION:
GATCCACTCA CCTCGGCTC CCAAAGTGCT GGGATTACAG TGCCCGTCCG TGATGATGGG 60
AACATGNCCG ACGTGCCAG NCACCCAG GACCCTCAGG GCCCCAGNCT GGAGTGGCTG 120
AAGAACTGT GAGCACCTCC ACTGACAGAG GCGGCCCTC CCACGGCTCC CAATAAAAT 180
40 GTGAAAACCA AA 192

SEQ ID NO:6789
SEQUENCE LENGTH:303
45 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08017
SEQUENCE DESCRIPTION:
GATCCGTATC GNTTTAAGAA GCGGACGGAG CTGTTTATTG CCGNCGAGGG CATTACACG 60
50 GGCCAGTTTG TGTATTGCGG CAAGAAGGCC CAGCTCAACA TTGGCAATGT GTCCTCTGTG 120

55

5 GGCACCATGC CTGAGGGTAC AATCGTGTGC TGCCTNGAGG AGAAGCCTGG AGACCGTGGC 180
 AAGCTGGCCC GGGCATCANG GGACTATGCC ACCGTTATCT CCCACAACCC TTNGACCAAG 240
 AAGNCCCGTT TTGAANGTTG CCCTNCGGTT TCCAAAGAAN GTTTATCTCC TTAANGCCAA 300
 TCN 303

10 SEQ ID NO:6790
 SEQUENCE LENGTH:267
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08018
 SEQUENCE DESCRIPTION:
 15 GATCTAAAA TCAATGAGAA CATAATTTTA ATTGGCAGTT CTTCAGAAAA ATGTGAATGG 60
 CTTATAAACA TAAATGTAAT ACTCAGCTGC TGTCATCATC AGAAGAATGA AGTTGTTTTT 120
 AAGCTCTTCA NCTGTCAAGN GTAAGAAGCA ATGTTACTAA TACCGGCAAG NIATGAAAAG 180
 ACGCTCATAC ATTGTTGGAA ATNAANGTTG GTATNGCTTT TCAGCGGCCN ATNAACATAA 240
 TCCCNNTNTT TCTCCCTAC NNACTCN 267

20 SEQ ID NO:6791
 SEQUENCE LENGTH:189
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 25 CLONE:HUMGS08019
 SEQUENCE DESCRIPTION:
 GATCATCTGG CAAGACAGCC CAAGAATAAA GCCGTCACCA TGGAGACTAA GAAGNGNCAG 60
 AAAGNCACTG GGTCTTCATT GTNTCGTCCA GCTGTTTCATG AGGCCTTATC TGAAGCCAC 120
 GTGACCTCCG GNCTACTCAC TTACATGCGN GAATAAAAGC TCTATTTTGT TTTAGGNCCN 180
 30 AAATAANTN 189

35 SEQ ID NO:6792
 SEQUENCE LENGTH:129
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08020
 SEQUENCE DESCRIPTION:
 40 GATCTGCTGG CAGAGGNCAA TCAAAAACGA CAACAAGCTT CTTCCAGGG TGAGGGGAAA 60
 CACTTAAGGA ATAAATATGG NGCTGGGGTT TAACACTAAA AACTAGAAAT AACATCTCA 120
 AACAGTAAA 129

45 SEQ ID NO:6793
 SEQUENCE LENGTH:267
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08021
 SEQUENCE DESCRIPTION:
 50 GATCAGGACC CACCTCCAGT TCTNCTGAAA GTNTGACAGT GTCCAGCCGG TTCTGCAGCA 60

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EP 0 679 716 A1

CTAGGGGAGG GGGCAGATGG TGGTTGCATG GGCTTCCTGG GTCTCCACTC TCCGTCTGGC 120
 CTAAGGTGA TGTATTGGT GTTTGGNCCT GCAGTCCCCA CTNTTAAGGC TTAAGCGGA 180
 TGTGGAACAN CACTTTCCTT CAGGAGTAGG TNGTNTACT TGTACCTCAT TTAGGCTTA 240
 5 GAAAGTTTNN CCNCANACTN NAAAAAN 267

SEQ ID NO:6794
 SEQUENCE LENGTH:122
 SEQUENCE TYPE:nucleic acid
 10 TOPOLOGY:linear
 CLONE:HUMGS08022
 SEQUENCE DESCRIPTION:
 GATCTACAAA ACAGATAGNG NAAAGTACAA CAGAATAGCT CGGGAATGNN CTCAGAAGTA 60
 15 TGCAGATGTA TTAAGAAAT TATTGGATAA CCTCTACAAA TAAAGATAGG GGNACTCTGA 120
 AA 122

SEQ ID NO:6795
 SEQUENCE LENGTH:56
 20 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08023
 SEQUENCE DESCRIPTION:
 25 GATCCCACTT GTAGATGCTT GCACTCACAC AATAAAAAAG TCTGNTATTT GCCAAA 56

SEQ ID NO:6796
 SEQUENCE LENGTH:130
 SEQUENCE TYPE:nucleic acid
 30 TOPOLOGY:linear
 CLONE:HUMGS08024
 SEQUENCE DESCRIPTION:
 GATCCGTGGT TCCCTGCAGA CTGGCAGGAG CAGATTCCAA AGGCACAGGA AGAAGCTTGC 60
 35 AGGTAGAATG TGTTCAATAC CTCTGCGCA TTATACCACA AAAAAGCTGG GNATAAAAAT 120
 GCTAACCAAA 130

SEQ ID NO:6797
 SEQUENCE LENGTH:234
 40 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08025
 SEQUENCE DESCRIPTION:
 45 GATCTGCCCC ATGATTGGTT CCTTAGGANC AAGNAATTTA CAAGTAGNAA TTATTCCTTT 60
 CAGAGTAACA TGCTGTATTA CTTCAATCCC TATTTTGTG TGTCCATTT TCTTTGGATT 120
 CCCTATTAC ATTGAATCCT NTTTGCCCTT CTGAAACAAT ATTCAGTCAC AAGNGNTTTT 180
 GGTGATGTTG GTCTTTGTAA CAAATNAAAN TTACCTTATA TCCTTCTGGA CAAA 234

50 SEQ ID NO:6798

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EP 0 679 716 A1

SEQUENCE LENGTH:246

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08026

SEQUENCE DESCRIPTION:

GATCACAAGG TCAGGAGTTC GAGACCAGCC TGGCCAATAT GGTGAACCTC ATCTCTATTG 60
 AAAATACAAA AATCAGCCAG GCACGGTGGC AGGCGCCTGT AGTCCACCTA CTCGGGAGGC 120
 TGAGGCAGGA GAACTGCTTG AACCCAGCGG CAGAGGTTGC AGTGAGCCAA GATTGAGCCA 180
 CTGCACTCCA GCCTGGTGNT AGNGCGNGCT CTGTCTCTAA ATAATNANNT AAANTNCNTT 240
 AANNNN 246

SEQ ID NO:6799

SEQUENCE LENGTH:114

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08027

SEQUENCE DESCRIPTION:

GATCAGTGT AAAC TAGATT GTATTCATTA CTAGATAAAA TGTATAAAGC TCTCTGTACT 60
 AAGGNGAAAT GACTTTTATA ACATTTTGAG NAAATAATAA AGCATTATC TAAA 114

SEQ ID NO:6800

SEQUENCE LENGTH:274

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08028

SEQUENCE DESCRIPTION:

GATCTTTTGT GCCAAGATGC AGGGAAATNA AGAAAGCTCT TTCCAGCTGT TTTNATGGAT 60
 TCATGGAGTG GGCTCATGTT GGGACCAGCT GACTCTGGGN GGAAGACTGC CTCTCCATCG 120
 CTGTGAGAGA GCCTGAAAGG ACCAACAATG AGNTGTTCTT GGGACCCGCC ATGGGGATGA 180
 TTGCTTCTCT AGGCTNCTGG CTGTTGCTGC ATTCTAAGGN TTAACCTCCT GGTCTNATGG 240
 TAGTGANCTT GAGCTTTTNN ATTCNATAGN AGNN 274

SEQ ID NO:6801

SEQUENCE LENGTH:42

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08029

SEQUENCE DESCRIPTION:

GATCTGTGNA GNAATGAAAT AAAATGGAGA AGAAGACAGA AA 42

SEQ ID NO:6802

SEQUENCE LENGTH:228

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08030

EP 0 679 716 A1

SEQUENCE DESCRIPTION:

GATCCAGTTT CAAGAATGGG CAGGTAAACG CAGNANGAGG AAAGGAATGT GGAATGAGAA 60
 CTTGGTGGTT CACCGCTGTA CTATTTGTGT AAATGTTTAC GTATGTNATA AGCTACATGT 120
 ATGTAAATNT TGCAATACCC CTAACAGTCG AGTAGTAGTC TCCCTTACAG GAATTTTGA 180
 CGGGGTTTCT CATCATCAAT ACCAAATAAN TATATGTAGG NNTGGAAG 228

SEQ ID NO:6803

SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08031

SEQUENCE DESCRIPTION:

GATCATATTC TTGAAATTTT TATAAATATG TATGGAAATT CTTAGGCTTT TTTTACCAGC 60
 TTTGTTTACA GACCCAAATG TAAATATTAA AAATAAATAT TTGCAATTTT CTACAGAATT 120
 GAATACCTGT TAAAGGAAAA TTACAGAATA ANCTTGTGAC TGGTCTTGTG TTACATTAAA 180

SEQ ID NO:6804

SEQUENCE LENGTH:277

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08032

SEQUENCE DESCRIPTION:

GATCATTCCG AGGTCAATTG AGGACGCACA CTGGAGAGAA GCCTTATNAG TGTAACAAT 60
 NTGGAAAAAC CTTCACTTGG TNCCTAACGT TTAGAGAACA TGTNAGAATT CACACGCAAG 120
 AGCAGCTCCA TAAATGTGAA CACTGTGGGA AGGCCTTTAC CTCTCCAGA GCATTCCAAG 180
 GTCATTTGAG GATGCACACT GGAGAGAAGC CTTATGAGTG TACACAATGT GGANAAACCT 240
 TCACTNGGGG CCTCAANCCT TACNTAATAA TGTGGIN 277

SEQ ID NO:6805

SEQUENCE LENGTH:273

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08033

SEQUENCE DESCRIPTION:

GATCTACCTC AGTATTCAAG TTCAGTGGGG ACACCAGTGG CTTCAAACTT CCTGGTTTCA 60
 TGATATCTTG AGACGCCTTA CAAATGATGG AGGATTCCAA AGAGTTTTTG TTTATTTGGG 120
 TTAATATTTG TTGGTATTTA TGGCATTGGA GATTGAAACT AAGNAATGTT TTAATTTATT 180
 ACCTTTACAA CATTATTTA CATTACATAC ATACATTTAC AACATTTATT AATTTATNTT 240
 AAAATAGCAT GNATAAGCCA ATTATNGGTT AGN 273

SEQ ID NO:6806

SEQUENCE LENGTH:207

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08034

EP 0 679 716 A1

SEQUENCE DESCRIPTION:

GATCCACTCT TCTCGNCCTC CCAAAGTGTT GGGATTATAG GCGTGAGCAC ANGCGCCCGG 60
 CCTGNNTTGG ATATTCTTA TAAATGGAAT CATACAGTGC TTNTTTCAGT TAGCATAATG 120
 TTTCCAGGT TCATCCAGGT CATAACACAT AATCAGGCTT CATTNTTTT TATTACCANC 180
 TAATATTCTA TGAATATAAA NNNACCN 207

SEQ ID NO:6807

SEQUENCE LENGTH:273

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08036

SEQUENCE DESCRIPTION:

GATCCTGAAG AGATTGAAAA AGAAGAGCAG GCTGCTACTC AGCCTGAGGT TGCAGACTGG 60
 TCTGAAGGTG TACAGGTGCC CTCTGTGCCT ATTCAGCAAT TCCCTACTGA AGACTGGAGC 120
 GCTCAGCCTG CCACGGAAGA CTGGTCTGCA GCTCCCACTG CTCAGGCCAC TGAATGGGTA 180
 GGAGCAACCA CTGACTGGTC TTAAGCTGTT CTGTCATAGG CTCCTAAGCA GCATGGNAAA 240
 ATGGTTGCTG GCAAATAAAC ATCAGTTTCT AAA 273

SEQ ID NO:6808

SEQUENCE LENGTH:73

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08037

SEQUENCE DESCRIPTION:

GATCTCCAAC ATCTTTGTGT TGAAGGGCCT ACAGAGTAAA CTGTGGGACT CAATAAACAT 60
 TCGTTACTTG AAA 73

SEQ ID NO:6809

SEQUENCE LENGTH:285

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08038

SEQUENCE DESCRIPTION:

GATCACAGCA GACAGGGTCG CTGCCCTGAT GGCGCTTACA TTCCAGTGGG TCTAATGACC 60
 ATATCTTAGG ACACAGATGT GCCCAGGGAG GTGGTGTAC TGCACAGGAA GTATGAGGAC 120
 TTTAGTGTCC TGAGTTCAA TCCTGATTCA GGAATCACA AAGCTATGTG ACCTTACACC 180
 AGTCACTTAA CTTGTTAGCC ATCCATTATC GCATCTGCAA AATGGGGATT AAGAATAGAA 240
 TCTTGGGGTT AGTGTGGNGA TTAGATTAAG TGTATGTAAG GCACN 285

SEQ ID NO:6810

SEQUENCE LENGTH:62

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08039

SEQUENCE DESCRIPTION:

GATCAGTTTC TGGCACATAA ATGCCTCAAT AAAGATTAA TTACTTTGTA TAGTGCTTA 60
AA 62

5

SEQ ID NO:6811
SEQUENCE LENGTH:237
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

10

CLONE:HUMGS08040

SEQUENCE DESCRIPTION:

15

GATCATTGGC TATGACAGAG AACCCGTCTC TCAAGCAGCA GCTCTTCTCC TATGCCATTC 60
TTGGCTTTGC CTGTCTGAGG CCATGGGGCT TTTNTGTTG ATGGTCGCCT TCCTAATCCT 120
NTTCGCCATG TGAGGNTCCA TGGGGGGTCA CCGGANCTGT TGATACTGCA ACTACACACC 180
ATTNTTGGTG CTGGGGTGTG TTAAGATTAA ACCATTNANC ACAACGTTTC TCTNAAA 237

SEQ ID NO:6812
SEQUENCE LENGTH:215
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08041

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SEQUENCE DESCRIPTION:

25

GATCAGCAAA TTTAAGAGAA GACCTAGCTA TGTGGCTGG TTGCTTTCTA TTATCATGGT 60
ATTTGACCAT TTTAGTTTAA ATTCCATGTC AGATAAGTGT AAATAGAAGA GTTAAAAAGC 120
ATGANACATT TCAGANGGTA TCAGTTATAT GATATTCTTT AANCANNTAT GACACATGTA 180
AATCCTCNTG ANTGACAATN CATCTNTNTG TGAAA 215

30

SEQ ID NO:6813
SEQUENCE LENGTH:181
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08042

35

SEQUENCE DESCRIPTION:

40

GATCTAAAAG CCATATCCTG TCTTTGGTGG TGGCCTGGTA GGAATGGCTT GTNCTAGTTC 60
TTCAAAGGTA AGATTGACCA AAGCAAAGTC TCATTGGTGG TCTGTGTTTA CATCTCCGT 120
GTCAAGNTAT TTAAAGCAT GNAAATAAAG CCATTCTTGC CCTTTTTCGT GTGTTTGCAA 180
A 181

SEQ ID NO:6814
SEQUENCE LENGTH:162
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08043

45

SEQUENCE DESCRIPTION:

50

GATCTCAGGC TTCTGCAGTT CTCATGACTC CTACTTTTCA TCCTAGTCTA GCATTCTGCA 60
ACATTTATAT AGACTGTTGA AAGGAGAATT TGAAAAATGC ATAATAACTA CTTCCATCCC 120
TGCTTATTTT TAATTTGGGA AAATAAATAC ATTCGAAGGA AA 162

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EP 0 679 716 A1

5 SEQ ID NO:6815
 SEQUENCE LENGTH:431
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08044
 SEQUENCE DESCRIPTION:
 10 GATCTCAGCG GGGAGCCACG TCTCTGCAC TGTGGTCTCT GCATGGACCC CAGGGCTGTG 60
 GGGACTTGGG GGACAGTAAT CAAGTAATCC CCTTTTCCAG AATGCATTAA CCCACTCCCC 120
 TGACCTCAGC CTGGGGCAGG TCCCAAGTG TGCAAGCTCA GTATTCATGA TGGTGGGGGA 180
 TGGAGTGTCT TCCGAGGTTT TTGGGGGAAA AAAAAATTTN TAGCATATTT AAGGGAGGCA 240
 ATGAACCTTN TCCCCANCT NTTNCCNGCC CAAATNTGTC TCCTAGNATC TTATGTGCTG 300
 15 GGAATAATAG GCCTTNACTG CCNTCNGNT TTATAGGCCN ANGGGTCCCG GTTTCCCGGG 360
 AACTGGAACC CTTCTGAGG GGAATCCCG GGGCTCAAAT TACCCCNAA AGGAAAGTGG 420
 CCAAGGCGGT N 431

20 SEQ ID NO:6816
 SEQUENCE LENGTH:231
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08045
 SEQUENCE DESCRIPTION:
 25 GATCTGTTTC TAAAGCGTTA CGCATCTTTN CTGAAGTATG CTGGAGAGCC TGTCCCTTTC 60
 ATTGAACCCC CTGAAGCTT TGAATTTNAT GCACAGCAGC TAAGAAAATT GAGGGAAAAC 120
 TCTTCTGAA ATAACCAGGC GATACTTTGT TTTGTATATA TTTGTGATC TGTGTCTACA 180
 TGTATTTTG AAGTATATCT GAGGGAANNG GGAATGGAAA TTTTCTTTAA A 231

30 SEQ ID NO:6817
 SEQUENCE LENGTH:147
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 35 CLONE:HUMGS08046
 SEQUENCE DESCRIPTION:
 GATCCTTCCA GCTGCTCTTC CATAACTTCA TCTCTCCCCT CAACACCTGC AACCACTAAG 60
 CCATTTTCCC CCTACCCGTC TGTAATTTTG TAATTTTGAG AATGCCAGGT AAATGGAATC 120
 40 AGAGCGGATA ATCTTTGGAG CATGAAA 147

45 SEQ ID NO:6818
 SEQUENCE LENGTH:101
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08047
 SEQUENCE DESCRIPTION:
 GATCATTTAT ATTTAAGTTT AAAAGGAGGN TGAGACTGAG TTTTGTAGA GTTATAATNA 60
 50 CATTCAAAAT ATACTTTTTT GCATTGNAA AATGTTAANT N 101

55

SEQ ID NO:6819
SEQUENCE LENGTH:236
SEQUENCE TYPE:nucleic acid
5 TOPOLOGY:linear
CLONE:HUMGS08048
SEQUENCE DESCRIPTION:
GATCAAGCCA AACAGTAAAA ACTACCAAGA GAACACGAGG AAGGCAGAAA CGNTGTTTAG 60
CAACAGTATT CTGCATGGTT CACTGCTTAA GAAAATGCCT TCTGGAATAT TTGTAAACTG 120
10 AAATTCTGTA TGTGTAAGNG NTGTTTAAAT ATGTTTGGGT CCTAAACAGC TTTTAAAAAT 180
TATACTTGGG CNTAANTTCA GCATCTTTTC AAATCANCTC TNTGCNCCGC CGCTGN 236

SEQ ID NO:6820
15 SEQUENCE LENGTH:195
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08049
SEQUENCE DESCRIPTION:
20 GATCATTTTG TTTGTTGCTC TCTCTAGTGT CTTCTTCTCT CGTCAGTCTT AGCCTGTGCC 60
CTCCCTTAC CCAGGCTTAG GNTTAATTAC CTGAAAGATT CCAGGAAACT GTAGCTTCCT 120
AGCTAGTGTC ATTTAACCTT AAATGCAATC AGGAAAGTAG CAAACAGANG TCAATAAATA 180
TTTTTAAATG TNAAG 195

25 SEQ ID NO:6821
SEQUENCE LENGTH:160
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
30 CLONE:HUMGS08050
SEQUENCE DESCRIPTION:
GATCATAAAT ATTTTGTAAT GAAATACTTC CNCTTTTCCA GGGCTTTGTA TGCACTTGTA 60
TAATTACATT GATGGCAATG TAGNGTTTGA ATTTCAGTCT GTAAATACTT TTNTGGNAAA 120
35 TAGNAATTTT NATTGCTTTA AAGTTTTGGA TATGGGTGGN 160

SEQ ID NO:6822
SEQUENCE LENGTH:157
SEQUENCE TYPE:nucleic acid
40 TOPOLOGY:linear
CLONE:HUMGS08051
SEQUENCE DESCRIPTION:
GATCTATAGG AAGATTGAAC CTGAATATTG CCATTATGCT TGACATGGTT TGCAAAAAAT 60
GGTACTCCAC ATACTTCAGT GAGGGTAAGT ATTTTCCTGT TGTCAAGAAT AGCATTGTAA 120
45 AAGCATTTTG TAATAATAAA GNATAGCTTT AATGAAA 157

SEQ ID NO:6823
SEQUENCE LENGTH:150
50

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SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08052

5 SEQUENCE DESCRIPTION:

GATCCAGNTT GTTGCATCAA TAGTTCTGTT TTTAGTACTG AGTGGGATGT CAGTATAGAT 60
GTACCATAGT AAACACCTGT GGAAGGACGT CAGGAATGTT TCCTGTTATT AGGTATCTAA 120
ATAAAGTTGC TGTAAACATT TGTGTACAAA 150

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SEQ ID NO:6824

SEQUENCE LENGTH:268

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS08053

SEQUENCE DESCRIPTION:

GATCTGTCCA CTTTGCTCTC ACGGACGTGG CATTGCCCAG GAAGGAGAAC CCAGCAGGAA 60
CGGAGGTCTC TGCCTTCACC TACAGTGAAG GGGCTGGTAT GTGAAATACT TTTACTGAGC 120
TTAGTGAAAA ATTCATTTTA CACCCTAGTT AGCTCCCAGA AAGGTTNAAC TTTCAAGANG 180
20 GTCAAAATAT GNAGCCTGTT ATATGTGTAA TTAAGGAGN NNTAGNATAT CCCAAATGNN 240
ACATTTTCAGG NATTAANTAA TTGNAATN 268

25 SEQ ID NO:6825

SEQUENCE LENGTH:197

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08054

SEQUENCE DESCRIPTION:

30 GATCTGAGAA GTGAGTGTA GAGGTTTAAA TCAACCTCTG TTCTGTGCTA GTTAAGGTAA 60
TAAAGTTGCT GCAGTCCAGG GGGTAGGTAC CTGTGGACGG CTCTGCGAAT AGGNCAGTTG 120
CATTTCCTGG GAATCAAGTG CATCCCTAGG CTGGCAGTGC AGCAGAAATA CTGAATAAAA 180
TGTGACAAAT CTCCAAA 197

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SEQ ID NO:6826

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS08055

SEQUENCE DESCRIPTION:

GATCAAGTAA AAATGAAGGA CAACGTGAAG TTAAAGTTC GATGCAGCAG ATACCTTTAC 60
ACCTTGGTCA TCACTGACAA AGAGAAGGCA GAGAACTGA AGCAGTCCCT GCGGCGGGT 120
45 TTGGCAGTGA AGGAACTGAA ATNAACCAGA CACACTGATT GGAAGTGTAT TATATTAAAN 180
TNCTAAAAAT CCTAAA 196

50 SEQ ID NO:6827

SEQUENCE LENGTH:213

SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear

CLONE:HUMGS08056

SEQUENCE DESCRIPTION:

5 GATCATCAGT ACTGTTGTCT CATGTAATGC TAAAACTGAA ATGGTCCGTG TTTGCATTGT 60
 TAAAAATNAT GTGTGAAATA GAATGAGTGC TATGGTGTG AAAACTGCAG TGTCCGTTAT 120
 GAGTGCCAAA AATCTGTCTT GAAGGCAGCT ACACTTTGAA GTGGTCTTG AATACTTTTA 180
 ATAAATTTAT TTTGATAAAT AATATTGAAC AAA 213

10 SEQ ID NO:6828

SEQUENCE LENGTH:133

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15 CLONE:HUMGS08057

SEQUENCE DESCRIPTION:

15 GATCGTCCTG CAGGTATTTT GCAAGCCCCT ACTGTCCGCC GACATCAGCG TGAATCTCAC 60
 ATGGTGCAC TGGCTCCCTG GGGGAGTNTT NGCNTCTCCT GTTGCTTTT CCCAAAACCA 120
 20 NTA AAAACCA TGN 133

SEQ ID NO:6829

SEQUENCE LENGTH:269

SEQUENCE TYPE:nucleic acid

25 TOPOLOGY:linear

CLONE:HUMGS08058

SEQUENCE DESCRIPTION:

30 GATCTGCTAC ATTTTAAAAG TGGGCATGAA AATCTTCTGT TATGTATGTA CTGTCATTAA 60
 TTCTGTTATT TTTNCCCACT AGTACTATCA ACTACAGTAA AGACCTTCCT CTGGCCCAAG 120
 GAATCAAGTT TCAGTAAAGG TGTTTTAGAT GANCATCCCT TAATTGAGG TGTTCAGCA 180
 GCTGTTTTTG GNGANGACAA AGNAAATTAA NGTTTTCCCT GAATAANTGC ATTATTNTGA 240
 CTGTGACAGT GNCTAATCCC CCTATGGTN 269

35 SEQ ID NO:6830

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40 CLONE:HUMGS08059

SEQUENCE DESCRIPTION:

40 GATCTATCCA ATAAAGGAGA GAAACAACCG CACACGCCCTG GCTCTCATCA TATGCAATAC 60
 AGAGTTTGAC CATCTGCCTC CGAGGAATGG AGCTGACTTT NACATCACAG GGATGAAGGA 120
 GCTACTTGAG GGTCTGGNCT ATAGTGTAGA TGTAAGAG NATCTGACAG CCAGGGATAT 180
 45 GGNCTCAGCG CTGAGGNCAT TTGNTACCAG ACCNGNGCAC AAGTCCTCTG NCAGCACATT 240
 CTTTGGTACT CATGTNTCNT GGCATCCTGG NGGGGTNTCT TCGGAACTT GTTCTGN 297

SEQ ID NO:6831

SEQUENCE LENGTH:174

50 SEQUENCE TYPE:nucleic acid

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EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS08060

SEQUENCE DESCRIPTION:

GATCATGGTG GTTTGGCAGC AGGGAATTTG TCTTGTGGA GCCTGCTCTG TGCTCCCCAC 60
TCCATTTCTC TGTCCCTCTG CCTGGGCTAT GGGAAAGTGGG GATGCAGATG GCCAAGCTCC 120
CACCTGGGT ATTCAAAAC GGCAGACACA ACATGTNGCT CCACGCGGCT CAAA 174

SEQ ID NO:6832

SEQUENCE LENGTH:253

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08061

SEQUENCE DESCRIPTION:

GATCAATTTT GGAGACCTTG GCCGCCCAGG ACGTGGCGGC AGGGGAGGAC GAGGTGGACG 60
TGGGCGTGGT GGGCGCCCAA ACCGTGGCAG CAGGACCGAC AAGTCAAGTG CTTCTGCTCC 120
TNATGTGGAT GACCCAGAGG CATTCCCAGC TCTGGCTTAA CTGGATGCCA TAAGACAACC 180
CTGGTTCCCT TGTGAACCTT TCTGTTCAAA GCTTTTGCAT GCTTAAGGAT TCCAAACGNC 240
TACTGTAATT AAA 253

SEQ ID NO:6833

SEQUENCE LENGTH:86

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08062

SEQUENCE DESCRIPTION:

GATCATGAAC CAAAGGAATT TATGTTTTGT AACTTGGGTA CTTTATTTTG CATTTTGTTA 60
TACTATTAAA TANTTTTNTC CTGAAA 86

SEQ ID NO:6834

SEQUENCE LENGTH:124

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08063

SEQUENCE DESCRIPTION:

GATCCAAGTT TCACTTTTGT TGATATAATG AGCCAGTTTT CTCAGTAATG TCTACTAAAA 60
AAAAAGCCAT TAACCNNGNT CTAATATTTG CATGATTCTA ATAAANGTAT GTCAACTTCT 120
TAAA 124

SEQ ID NO:6835

SEQUENCE LENGTH:107

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08064

SEQUENCE DESCRIPTION:

GATCCCTCA GAAGGCAGGA GTGCTGCCCT CTCCCATGGT GCCCGTGCCT CTGTGCTGTG 60

TATGTGAACC ACCCACGNGA GGGNATAAAC CTGGCACNNG GACCAAA 107

SEQ ID NO:6836

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08065

SEQUENCE DESCRIPTION:

GATCCTCCTG TCTTGTTTC CCAAAGTGCT GGGATTGCAG GTGTGAGCTA CTGCACCCGG 60
 CCCAATAAAA AAATCTCGTT CTGTGAAAGA AATGTTTAAT AAAAGTTGTA TTGTCAAATT 120
 TTAAT 125

SEQ ID NO:6837

SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08066

SEQUENCE DESCRIPTION:

GATCACTAAG ATTAGCTATA TCTATACAGT CATTAGTTTG ACAAGAAATA GNATCCTGTC 60
 AGATGCCAAA GAGTGGGATT TTNATGTTTA ATGATTAAAC ACCATTATTT ATTGACAATT 120
 TACCCTGTGG AACTGTATTA TTTCTAACTA TGAAATAAAG GGGTGATGTA AACACAAA 178

SEQ ID NO:6838

SEQUENCE LENGTH:222

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08067

SEQUENCE DESCRIPTION:

GATCCCCGGC CAAGCCCAGT CACGNGAATT TAAGGCTCTT CTCTCCGGCT CCAGCCTGTG 60
 CCTGTAATTG TCCAGGANTG GCCTAGGCCG ACACCTTCTG CTGCCCCGGA GTCCCTCCC 120
 TGGGTGGGAT GCTCACTACA GCTCTGATGT ATATAGCACA CAGCCCAANT CCGACCCTCC 180
 GGTCTGTCGC CAATAAAGNG GGGTGTGTTT CANTCCGGGA AA 222

SEQ ID NO:6839

SEQUENCE LENGTH:198

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08068

SEQUENCE DESCRIPTION:

GATCCCAACA GGCCCTGGCA GCGTCTGGAC ATGTGTAAC AGCAGCAGTC ACGTTCCTCG 60
 GCTGNCACAA CCAACACNNN AGCAGGTTT CCATTTTCTG TACTTTNATA TTTCTGTTCA 120
 ACCTGTTGGT TTCTACAATG ATTTTAAACA TTGGNAAGNC AGCCTTGNGT ATATTTTAA 180
 AAATTATATT NAAAATGN 198

SEQ ID NO:6840

EP 0 679 716 A1

SEQUENCE LENGTH:284

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08069

SEQUENCE DESCRIPTION:

GATCATGAAA CTTAGTAGAG GGGATTGTGT GTATTNATA CAAATTTAAT ACAATGTCTT 60
ACATTGATAA AATTCTTAAA GAGCAAAACT GCATTTAATT TCTGCATCCA CATTCCAATC 120
ATATTAGANC TAAGNTATTT ATCTATGAAG ATATAANTGG TGCAGAGAGA CTTTCATCTG 180
TGGATTGCGT TGTTCCTTAG GGTTCCTAGC ACTGNTGCCT GCACAAGCAT GTGNATATGT 240
GANATNNNAT GGATTCTTCT ATAGCTAAAT GNGTTCCTC TNGN 284

SEQ ID NO:6841

SEQUENCE LENGTH:114

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08070

SEQUENCE DESCRIPTION:

GATCCACCTG CTTGGGCTC CCAAAGTGCT GGGATTACAG CTGTAAGTCA CTGATNCCGG 60
NTGCATGTCA AGCACATTGG NAAGTTCTTA CAACAATTCT GNTGGAGNT TTTN 114

SEQ ID NO:6842

SEQUENCE LENGTH:253

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08071

SEQUENCE DESCRIPTION:

GATCTGTCTC TCAAAGGAAG AAACAAAAAC CAAAATTTT GACTGCAAAA GATTGACTAA 60
TTCTAGGTGC AAATACTGG AAATTTAGGA TTGTTATTGT ACTACACAGG TCACAANGTT 120
CCAAACCTAT TTCCCTTGTA ATTTTATAGT CATGATTTT CAGAATGCAG TTTCTATCTT 180
TTTAGGTGCA ATATTACGAA CTGCTTAGGT CAGANCANTT TNGTNTCTCC AGTTTTTTCT 240
CCCTANGTTA CAN 253

SEQ ID NO:6843

SEQUENCE LENGTH:103

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08073

SEQUENCE DESCRIPTION:

GATCTTATAA CCTCATTGTT TCCTAATCAT TTTATTTTCT CTCCTGCTAG TACTGTGCCG 60
CTTCCCCCTC CCCCCACACA AAATAAAAC AGTATCTGCC AAA 103

SEQ ID NO:6844

SEQUENCE LENGTH:110

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

EP 0 679 716 A1

CLONE:HUMGS08074

SEQUENCE DESCRIPTION:

5 GATCCGTGCC CCACCTCTCC CCAGTTAAGT GCCTTCACAC AGCACTGGTT TAATGTTTAT 60
AAACAAAATA GAGAAACTTT CCTTATAAAT AAAAGTAGTT TGCACAGAAA 110

SEQ ID NO:6845

SEQUENCE LENGTH:246

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08075

SEQUENCE DESCRIPTION:

15 GATCAGGGCT GAGGGTAAGG AAAAGAAGAG ACTAGGAAAG CTGGGCCCAA AACTGGAGAC 60
TGTTTGTCTT TCCTGGAGAT GCAGAACTNG GCCCGTGGAG CAGCAGTGTG AGCATCAGGG 120
CGGAAGCTTT AAAAGCAGCA GCGGCNTGTG CCCCAGGGCA CCCAGAATGA TTTCCCTATG 180
GGCACCAGGC CAGNGAAAAA ATTGGGCAGC NTCTTTAAAG GNGGAAAAAT TGTTTTGAGC 240
CCCAAA 246

20

SEQ ID NO:6846

SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

25 TOPOLOGY:linear

CLONE:HUMGS08076

SEQUENCE DESCRIPTION:

GATCTACCTG CATATAACAG TCTCTAAGTT TTTTTTCAA TCTTGCANTT TGATAATTTT 60
GATTTTGCC ANATTAGNNT AATTGGGAC TATCCTGAAA CAGNN 105

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SEQ ID NO:6847

SEQUENCE LENGTH:26

SEQUENCE TYPE:nucleic acid

35 TOPOLOGY:linear

CLONE:HUMGS08077

SEQUENCE DESCRIPTION:

GATCAAAAGA GCTGTCTGAC TGCAAA 26

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SEQ ID NO:6848

SEQUENCE LENGTH:84

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08078

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SEQUENCE DESCRIPTION:

GATCCCTTGA GCCCAGGAGT TCCAGACCAG CCTGGGAAAT ATAGGGAAAC CCTGTCTTTA 60
CAAAAAAAAA TTTTAAAAAT TAAA 84

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SEQ ID NO:6849

SEQUENCE LENGTH:217

55

SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 5 CLONE:HUMGS08079
 SEQUENCE DESCRIPTION:
 GATCAGATTC CTGACTAACC CCTCTCTTAG AGCTACAGCG AGCTGCATTA CCAGCTTAAA 60
 ACACTTCTTA GGGATTAAAT ATAGNTGTNA TTTTCAAAA TCGTTTTTAA TTAAACTGT 120
 GTTTTAGTGT AAAATTGTTA ACCTTGTAAG ATGGATANTG TGTATANGAN TGTAGGCCTT 180
 10 AACTATTCA CATGAGTCAA ANCANGGCNG CTTTAAN 217

SEQ ID NO:6850
 SEQUENCE LENGTH:93
 15 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08080
 SEQUENCE DESCRIPTION:
 GATCTCACCC AGTGTGCAAT TTGTGAAAAT GAACCAAATG TCATTACTTT TGTCTTAAAG 60
 20 CAAAGTCTAT TTCAAGNATA TGNACAGCAN AAA 93

SEQ ID NO:6851
 SEQUENCE LENGTH:73
 25 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08081
 SEQUENCE DESCRIPTION:
 GATCAATGAA CCATCTCTTC TGGGCAGTTT TGTTGAAAAT AAAGGTTTCT CTTTGATTTC 60
 30 AAGAAATGACC AAA 73

SEQ ID NO:6852
 SEQUENCE LENGTH:104
 35 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08082
 SEQUENCE DESCRIPTION:
 GATCACCGGT TTCCGACTGA GTCTGGGGAT TTNGGCCTTG TTGAACCCTC CTACGGTGCC 60
 40 CNGGGAATTT GAAANACGCT TTCTGCATNG ATATNTGGGC CCTN 104

SEQ ID NO:6853
 SEQUENCE LENGTH:123
 45 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08083
 SEQUENCE DESCRIPTION:
 GATCAACATC ATTAAAGATT ATGTAAAAAG TTAAGGCT TATGAGCCTA AGTTTGTTCC 60
 50 TATATTACCA TATTACTGA ATNTCTGGN AAAGNACTT TANTAAGTT TAATCTNAGG 120
 AAA 123

55

SEQ ID NO:6854

SEQUENCE LENGTH:91

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08084

SEQUENCE DESCRIPTION:

GATCACTTGA GCCTAGGAGG CAGNGGTTCA AGTGAGCTGA GATGGCACTC CTGCGCTCCA 60
GCCTNGGTGA CAGCGTGAGA NNCTGTCTCA N 91

SEQ ID NO:6855

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08085

SEQUENCE DESCRIPTION:

GATCTGTCAG NACCATTGGA AAAGTGTCTC AAGAGCAGTT GCTTATATAT AGTAGGATTT 60
TACTTTTTCC TGCTTATGTA NTACTATATG CTTAAAAAAC CTGGAGGAAT ACTTACCAAA 120
GAGGAGTAAC CATCTCTGAG GGTGGGATTC TGGGGGANTT TTTGTTTTTT TCTGTTTTCT 180
ATANTGTGCA NCTNTNTAG TATGTNTNTT NCTAATTGN 219

SEQ ID NO:6856

SEQUENCE LENGTH:66

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08086

SEQUENCE DESCRIPTION:

GATCTTNCTC CATTACAGT ACATTCTTAG GATGTATGTA GTAAATAAAG CTTTCTTTAA 60
AGCAAA 66

SEQ ID NO:6857

SEQUENCE LENGTH:43

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08087

SEQUENCE DESCRIPTION:

GATCACCCCG TAGGAAATAA AGCAGGCATC TCTGGACCTC AAA 43

SEQ ID NO:6858

SEQUENCE LENGTH:338

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08088

SEQUENCE DESCRIPTION:

GATCAAAAGA CAGNTAAATN TTTCTTCTAG AACACAGTTA CCCCCTTGCT TCATCTATTG 60

EP 0 679 716 A1

CTAGAACTAT CTCATTGCTA TCTGTNATAG ACTAGTGATA CAAACTTTAA GAAAACAGGN 120
TAAAAAGATA CCCATTGCCT GTGTCTACTG ATAAAATTAT CCCAAAGGTA GGTGGGTGTG 180
NTAGTTTCCG NGTAAGACCT TAAGGCCACA GCCAANCTCT TAAGTACTGT GTGNCCACTC 240
TTGTTGTTAT CACATAGTCA TNCTTGTTG TACTATGTGA TGGTTAACCT GTAGCTNATN 300
ANTNTACTTA TTATTCTNTT CCTCCTTTAC CTCANCNN 338

SEQ ID NO:6859
SEQUENCE LENGTH:251
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08089
SEQUENCE DESCRIPTION:
GATCGTTTGC AAGTAACTGA ATCCATTGCG NCATTGTGAA GGCTTAAATG AGTTTAGATG 60
GGAAATAGCG TTGTTATCGG NTGGGTTTA AATTATTTGA TGAGTCCAC TTGTATCATG 120
GCCTACCCGA GGAGANGNGG NGTTTGTTAA CTGGGCCTAT GTAGTAGCCT CATTNCCAT 180
CGTTTGTTAT ACTGACCACA TATGCTTGTC ACTGGGCANG AAGCCTNTTT CNGCTGCCTN 240
CACGCANTTT N 251

SEQ ID NO:6860
SEQUENCE LENGTH:359
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08090
SEQUENCE DESCRIPTION:
GATCTTAATA TAAATNCACT TTCATTTTTN ATAGCTGTCC CATCTGGTCA TTTGGTTGGC 60
ACTAGACTGG TGGCAGGGGC TTCTAGCTGA CTCGCACAGG GNTTCTCACA ATAGCCGATA 120
TCAGAATTTG TGTGAAGGA ACTTGCTCTC TCATCTAATA TGNTAGCGGA NAAAGGAGAG 180
GAAACTACTG CCTTTAGAAA NTATAAGTAA AGTGATTAAA GTGCTCACGT TACCTGNCA 240
CATAGTTTTT CAGTCTATGG GTTTAGTTAC TTTAGNNGGG NAGCNTGTNA CTTATATTAN 300
TAGTANTTTN GTAAAGTTGG NTGGATAAGC TATCCATGTT GCCAGGTTCA TGGATTNGN 359

SEQ ID NO:6861
SEQUENCE LENGTH:75
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08091
SEQUENCE DESCRIPTION:
GATCCCCAAA CCACAAATAC ATATGTGTGC CTAAGTTTGT GCATGCATAC ATTAACAGG 60
ACATAAAGTG TTAAG 75

SEQ ID NO:6862
SEQUENCE LENGTH:228
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08092

SEQUENCE DESCRIPTION:

5 GATCATCATG GCAAAACCAG CTGGTGGGCC CAAGCCTCCA AGTGGGAAGA AAGACTGGGA 60
 TGATGACCAA AATGATTGAA ATTGGCTTAA TTTTACTGT AGGTGAAGGC TGTATTGTA 120
 GTAGTACTCA AGAATCACCT GATGTNTTCT TATTCTCCTT AAATTAAGAG TTATTTTGTN 180
 TTTGTNTTCT TGGCTGGATG TTATAATAAN CATATTGTNA CTGTCAAA 228

SEQ ID NO:6863

10 SEQUENCE LENGTH:299

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08093

SEQUENCE DESCRIPTION:

15 GATCATGCCT ACTTCTTCT NTGTATCTCC CTCCTTCCCA GCCCACC CGG GCAGCAGACT 60
 CTNATGGAAG NAAGGTGCCG TAGTGGGNTT TTAGAACTA ACGGGACTGG TTTCAAAGC 120
 AGTTATCTTG GGAAACTGTT TATTCCAGCG ATGTGACTTT TTNAGAATA TTTCTTGGA 180
 TCATATTGAG AGTCTGGGGC TGTGTGTGA GCAGCCTTAA GGNTGCTAGA CACTCATTTA 240
 GTGCCCAGGG AGTCCAGCGA ATGACGCTG TGGCCAAGCG AGGTCTCAGG TGCAAAGCN 299

SEQ ID NO:6864

SEQUENCE LENGTH:298

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08094

SEQUENCE DESCRIPTION:

30 GATCCTCTGA ACCTGCAGAG GCCCNCTCCC CGAGCCTGGC CTGGCTCTGG CCCGGTCCTA 60
 AGCTGGACTC CTCCTACACA ATTNATTNA CGTTTTATTT TGGTTTTCCC CACCCCCTCA 120
 NGNNTGTCGG GGAGCCCTG CCCTTNACCT AGCTCCCTTG GCCAGGAGCG AGCGAAGTGT 180
 NGGCCTTGGT GAAGCTGCCC TCCTCTTCTC CCCTCACACT ACAGCCCTGG TGGGGGAGAA 240
 GGGGGTGGGT GCTGCTTGTG GTTAGTCTT TTTTTTTTTT TTTTNTTTN TNANAAAA 298

SEQ ID NO:6865

SEQUENCE LENGTH:296

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08095

SEQUENCE DESCRIPTION:

40 GATCTGCGGG GCAANTTCAA GCNNNCCCCA CTGCGGAGGG TGCGCATGTC GNCCGATGCC 60
 ATGCTCAAGG CCCTGCTGGG CTCGAAGCAC AAGGTGTGCA TGGACCTGAG GGCCAACCTG 120
 AAGCAGGTCA AGAAGGAGGA CACAGAGAAG GAGCGGGACC TGCGAGACGT GGGTGA CTGG 180
 AGGAAGAACA TCGAGGAGAA GTCTGGCATG GAGGGCCGGA AGAAGATGTT TGANTCCGAG 240
 TCCTAGGCCA CTCGCTGCCC CTACGNTGTC CCCGGTGCCC GGTCCCAGC AGAANN 296

SEQ ID NO:6866

SEQUENCE LENGTH:310

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08096

SEQUENCE DESCRIPTION:

5 GATCCTGTTC TGTCAGCTGC ACCCTGAGCA AAAACTTGCC ACACCAGNGC TCCTAGAAAC 60
 AGCCCAGGCT TTGGAGCGGA CCCTGAGGAA GCCTGGGAGG GGTGGGATG ACACGTATGT 120
 CTTGTCAGAT ATGCTCAAGA CGGTGAAAAT TGTGTGACTG CTTAGGCCAA GCAGCCCTCC 180
 TGCCTAGAAT GACCTTGGAC TCCCAGCCTG CCAGNGAATG NAGAAATACA ACGCACAGTA 240
 10 CTTTGAAGC TTCGTATTTT TCTTGGTTTC AACTCAGCT ACATGTGACC TCCAGCTTGG 300
 TCGCGTTAGN 310

SEQ ID NO:6867

SEQUENCE LENGTH:285

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08097

SEQUENCE DESCRIPTION:

20 GATCAGTTCA AGAAGGTAAT CCAAGGGCCT GATGACTCTT TTGGTAACCA GACACCAATC 60
 AAATAAGGGG AGGAGATGAA AATGGAATNA TTTCTTCCAT GCCACCTGTG CCTTAGGAA 120
 CTGCCAGAA GAAAATCCAA GGCTTTAGCC AGGAGCGGAA ACTGACTACC ATGTAATTAT 180
 CAAAGTAAAA TTGGGCATTC CATGCTATTT TTAATACCTG GNTTGCTGAT TTNCAAGAC 240
 AAAATACTTG GGGTTTTC AATAAGATTG TTGTAATATT GNAAA 285

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SEQ ID NO:6868

SEQUENCE LENGTH:201

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30

CLONE:HUMGS08098

SEQUENCE DESCRIPTION:

GATCAGACTC TGTATCAAAA GTACCTTTGC CCTAGGAAG AGTGAGTATT GGAGTCATCT 60
 TATCTATTAC TCCAAACCTC CCTTTNATT TCTTGAGCCT GGCTTGGACC TTGGCATTCC 120
 35 GTTTGANITC CTTCTAAGT GAACATTTGT GTTGTATCTG TAACACTGGC ACTGAAATAA 180
 AGACCACACG GTTAAAGNAA A 201

SEQ ID NO:6869

SEQUENCE LENGTH:50

40 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08099

SEQUENCE DESCRIPTION:

45 GATCATGTGC TGCCTTTTAC TGCTGAATTA AAACAGATAT TTCACGNAAA 50

SEQ ID NO:6870

SEQUENCE LENGTH:43

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

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CLONE:HUMGS08100

SEQUENCE DESCRIPTION:

GATCTTCAGT GTAAATNACC ATGTATAAAC TGTAAGTGC AAA

43

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SEQ ID NO:6871

SEQUENCE LENGTH:247

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS08101

SEQUENCE DESCRIPTION:

GATCATTTAA TATATTCATA TTACCAAGAC TATTATACTG GAAGTGGTTT TTGTGTTATA 60

AAGGTTTAAT TTTACATANG GCAGTTACTT AATGTGATT TNAACCCCTA AAAAAGTGGA 120

15

GATGTATACA TTTGTTAACA ATGCCATGAA AGCATTNCT TTCTCCTAAG GAAAAGTGAA 180

TTTCTTATCA GAATATCTGG CTGGCCCTGT AATTTAAATT AAAATAAANT TTGGCGNAN 240

CAGCAAA 247

SEQ ID NO:6872

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SEQUENCE LENGTH:288

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08102

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SEQUENCE DESCRIPTION:

GATCTATCTG AGAACAAAGA AGTCGACAGA ATAACATTGA TGACTTTTTA AATAATTAAT 60

TTATTTGAAG AATGCTTGCA TACAAAAAGC TTCCTGCAGG AATTTTAAAC AAGCTGTCCT 120

TGGTTATCCC AGGCAATGTC AGTTGATTTA NTTAAGTTA CATGCAAAAG NGAATACAAT 180

TGTAACATTA ATTGGAACAT TAAGTTGGCT TATAAGCAGT ATTTCCACTG CTCCTACAAT 240

30

TGNTTTNNGT TATTGATAN TTNATTTNAN ATTNNGTNTT GGTGTGGN 288

SEQ ID NO:6873

SEQUENCE LENGTH:294

35

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08103

SEQUENCE DESCRIPTION:

GATCGTACCT ATTGCACTCC ATCCTGGATG AAAGAGCCAG ACTCTGTCTC AAAACAAACA 60

40

AAAAAGCGTG GGGACTTCTG GGGACAGACA AGGTGCCTGT AATATATTTN CTCAGTCTTT 120

GCCCTGAATG GTCTCAGCTT GANACCATNT CAAACTGGAG AGAAGCAAGC CAGCCAATAG 180

AATGGGGTGA TTTACAGGGA TTTCTGTTTA CTGTCAAAAT ATTTCTCATC TGCACATATGT 240

TTCCATTTGT GGTCTGAAG GAAATTCTTA TAACTCAACA TTTGTCTGGT CTTN 294

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SEQ ID NO:6874

SEQUENCE LENGTH:295

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS08104

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EP 0 679 716 A1

SEQUENCE DESCRIPTION:

5 GATCCGACAC TCCAGGCAGA GCAGAGGGCA GGAGAGGCC AAAGAGCTAG GTCAAGCAGC 60
 TGGCTCCCT GGAAGGGGAG CCGGGAGACA GGGAGGTCCT CACACTGCCC CCGTGGCCAC 120
 GCATGGCTGT CTGCACACTC CATCAGGAGG AAGGGCAGGG GAGAAGTCAC ATGCNGTACA 180
 GTGAAACTNA TCAGTGTAC ACACGCCAG CAGGAGGGGA GAGCTCTGCT CCACACGCTG 240
 GCGGCCTTGG CTGCTCCANA GCAATCCGNT TGCTCCANCT TCAAGCCATT GGGGN 295

SEQ ID NO:6875

10 SEQUENCE LENGTH:168

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08105

15 SEQUENCE DESCRIPTION:

GATCCTGTAT TATCCATCTA CATCAGAACC AAATACTTC TCCAACACCC GGCAGCACTT 60
 GGCCCTGCAA GCTTAGGATG AGAACCACTT AGTGTCCAT TCTACTCCTC TCATTCCCTC 120
 TTATCCATCT GCAGGTGAAT CTTCAATAAA ATGCTTTTGT CATTCAA 168

20 SEQ ID NO:6876

SEQUENCE LENGTH:141

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25 CLONE:HUMGS08107

SEQUENCE DESCRIPTION:

GATCCTTGAG ATGACTGTAG CCCTGGCTGA CAACCTNATT GCTGCCTGTN AAGGACCCTG 60
 AACCAGAGGA CTCAGCGAAA TTGTGCCAG ATTCTGACC TACAGCGGCA GTGAGATAAT 120
 AAATGCTGTT GAGGTCACAA A 141

30 SEQ ID NO:6877

SEQUENCE LENGTH:124

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35 CLONE:HUMGS08108

SEQUENCE DESCRIPTION:

40 GATCTGCTCA CCCTCGGTNC ACANCAGTGT CAGCCATGCA AGCAGGACAG AATGGTGACT 60
 GGGTGCCCAT NGTGAGCTGT GTATTCCTA GGAGGTAGAA AACAATAAAA AATTGCATGC 120
 TAAA 124

SEQ ID NO:6878

SEQUENCE LENGTH:280

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

45 CLONE:HUMGS08109

SEQUENCE DESCRIPTION:

50 GATCCTCTCG CCTCAGCTC CTGGGTGGCT GGGACTGCAG ATACATGCCA CCATGCCGGA 60
 CAAATTTNTT GTATTTNAG TAGAGATGGG GTTTTACCAT ATTGCTCGGA TTGGTCATGA 120

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EP 0 679 716 A1

5 ACTCCTGGAT TCAAGCAATC TGCCACCTA GCCTCCCTAA GTGCCTGGCC AAATTTTGG 180
TTTTAATAGT CGATTGTGT ATATTTTGTG GTAGTATCTA CATATATTTA ATACATTTAT 240
NTGTTGNTGN AAAAAGTANA ATTTGTAAAA NNTTGNAAA 280

10 SEQ ID NO:6879
SEQUENCE LENGTH:198
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08110
SEQUENCE DESCRIPTION:
15 GATCATTGTT GAACTTCAGC TCCAGTGTCT CTCCAGAATA AGACATTGGC ATTCAAATGT 60
CTATATCTTG TTAATTACAA AATAAAAAAC AGATTAATTA GTGGCTTTTA AATTGTAGTT 120
ATATCNGTGT ATATACACGC GGGGNACTGT ATAAAGACAT ACTAAAGGGC ACAGATTAAA 180
ATAAGTATTA TTANTAAA 198

20 SEQ ID NO:6880
SEQUENCE LENGTH:66
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08111
25 SEQUENCE DESCRIPTION:
GATCAAAAGTT GTTAAAATTA TAAATNTATG ATGCAGNAAT AAAATTGATA TATTTTGATA 60
TTCAAA 66

30 SEQ ID NO:6881
SEQUENCE LENGTH:100
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08112
35 SEQUENCE DESCRIPTION:
GATCTCTTAC CTTTGAAAA TAGGGGTTAG GCATGAAGGT GGTGTGATT AAGAAGATGG 60
TTTTGTTATT AAATAGCATT AANCTGGAAT TGACAAGAAA 100

40 SEQ ID NO:6882
SEQUENCE LENGTH:30
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08113
45 SEQUENCE DESCRIPTION:
GATCAAAGAA ATAATTCTTT TGCCACTAAA 30

50 SEQ ID NO:6883
SEQUENCE LENGTH:172
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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EP 0 679 716 A1

CLONE:HUMGS08114

SEQUENCE DESCRIPTION:

5 GATCACTACA ACAATTTGNC TGCCTCCAAG GTCCTCTGAG GCAGAAGGCT CTGGGGNTTC 60
TGCTGTCTT TGGNGGGTGT CTTCTGGGTA GAGGGATGGG AAGGAAGGGA CCCTCACCCC 120
NGGCNCTTCT TCTGACCTG CCACTAAAAA ATTTATGGNC CAAGGGCNCA AA 172

SEQ ID NO:6884

SEQUENCE LENGTH:291

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08115

SEQUENCE DESCRIPTION:

15 GATCAGCAAT NAGGGTGAGG ACAAATCTT CTTAATCAAC AAGCTTCACT CCATCTACGA 60
GAGGAAGGAG AGGGAGGAGA GGAGCAGGCT TGGGACAACC GAGGAGGCTG CGGCACCCCC 120
TGCCCTGCTC ACAGATGAAC AGGATGCCTA GGGGGACGGC GATGGGCCTC ACGGGCCCCG 180
CCAGCACCTT GAGACCACAC TGTTGCCTCC CAGTGACCCT GCTGGGACAC CAGGACAAGG 240
AAGACAGTTT CGCCTCTNGA AAGCCGCAGC TGCGCCTAGG CTGGAGCTGG N 291

SEQ ID NO:6885

SEQUENCE LENGTH:30

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08116

SEQUENCE DESCRIPTION:

GATCTGTAAA TAAAACTTAC ATTTTCAAA 30

SEQ ID NO:6886

SEQUENCE LENGTH:291

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08117

SEQUENCE DESCRIPTION:

35 GATCTGCCTG CCTCGGNCTC CCAAGTGCTG GGATTACAGG CGNGAGCAGC TGCACCCAGC 60
CTAGAATCTT GTATAATATG TAATTGTAGG GAAACTGCTC TCATAGGAAA GTTTTCTGCT 120
TTTTAAATAC AAAAATACAN AAAAATACAT AAANTCTGAT GATGAATATA AAAAAGTANC 180
40 CAACCTCATT GGNACAAGTA TTAACATTTT GGAATATGTT TTATTAGTTT TGTGATGTAC 240
TGTTTACAA TTTTNACCAT TTTTTCAGT AATTACTGTA AANNNGNNNN N 291

SEQ ID NO:6887

SEQUENCE LENGTH:288

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08118

SEQUENCE DESCRIPTION:

50 GATCCCAAGC TCAGTCCCA CAAAGTTCAG GGCCGGTCGG AGGCAGGGGC AGGTCCGGGT 60

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5 CCAAAGCAAG GACACCACAG CTCTCCGAC TCCAGCAGCA GCTCCAGCGA TTCGGACACG 120
 GATGTGAAGT CCCACGCTGC TGGCTCCAAG CAGCACGAGA GCATCCCGGG CAAGGCCAAG 180
 AAGCCCAAAG TGAAGAAGGA GAAGGGCAAG ANGGNGAAGG GCAAGANGAN GGAGGCTCCC 240
 CACTGANGGG CCCTGGACAG GGCTCATTAA ACCTTCCTCT CTGCCAAA 288

10 SEQ ID NO:6888
 SEQUENCE LENGTH:308
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08119
 SEQUENCE DESCRIPTION:
 15 GATCCGCATT GAAGACCCAC CCCGCAGAAA GCACATGGAA TTCCTGGGTG GTGCAGTTCT 60
 AGCGNTTATC ATGAAAGNCA AAGACAACTT TTGGATGACC CGACAAGAGT ACCAAGAAAA 120
 GGGTGTCCTG GTGCTAGAGA AACTTGGTGT GACTGTTCGA TAAACTCCAA AGCTTGTTCC 180
 CATCATACCC GTAATGCTTT CTTTTTCCT TTATTGCCAA TCTTTGAACT CATTCAACTC 240
 CAGGACATGG AAGAGGCCTC TNTCTGCCCT TTGACTGGAA NGGTCAANGT TTTATTCTGG 300
 20 TTGTCTGN 308

25 SEQ ID NO:6889
 SEQUENCE LENGTH:308
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08120
 SEQUENCE DESCRIPTION:
 30 GATCATGTCT TTTGCAGGAA CATGAATGGA GCTGGAGGCT ATTATCCTTA GCAAACATAAT 60
 GCAGGAACAG AAAACCAAAT ACTGCACGTN CTCACTTATA AGAGGGAGCT AAATNATGAG 120
 AACTGATGAA CACAAAGAAG GAAACAACAC ACAATGGGGT CACTTGACA GTGGAAGGTG 180
 GGAGGAGGGN GAGGAGCAGA AACATAACT ATTGGATACT GGGCTTAGTA TCTGGGTGAT 240
 GAAATAATCT GTACAACAAA CCCCATGNC ACAAGTTCAC CAATGTAACA NACCTTCACA 300
 35 TGTACCCN 308

40 SEQ ID NO:6890
 SEQUENCE LENGTH:224
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08121
 SEQUENCE DESCRIPTION:
 45 GATCAATCC CTTGAATAGG GAAGTAACAT TTGCCTTAAA TTTTTCGAC CTCGTCTTTC 60
 TCCATATTGT CCTGCTCCCC TGTTTGACGA CAGTGCAATT GCCTTGTTAC CTGTGAGCTG 120
 GAGAGAACCC AGATGTTGTT TATTGAATCT ACAACTCTGA AAGAGAAATC AATGAAGCAA 180
 GTACAATGTT AACCCATAAT TAATAAAGA GTTAACATCC CAAA 224

50 SEQ ID NO:6891
 SEQUENCE LENGTH:28
 SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear
 CLONE:HUMGS08122
 SEQUENCE DESCRIPTION:
 5 GATCAAATAA AGTTATAAAA TTGCCAAA 28

SEQ ID NO:6892
 SEQUENCE LENGTH:140
 10 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08123
 SEQUENCE DESCRIPTION:
 15 GATCAGGCCT GGCCACTCCT CTTGGAGGG CGGTTGAGGC CCACCTGCCT TGGGCTTCCC 60
 AATNCTGATT CCNNTACTAC ACCCTTCCCA GTTCTATTCC CCTCACCACA CTGCTCCAA 120
 TAAAACTATT TATATACAAA 140

SEQ ID NO:6893
 20 SEQUENCE LENGTH:163
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08124
 SEQUENCE DESCRIPTION:
 25 GATCGTCATC CTTCTCTGGA GTTCTATCT TCCAAGATGT GACTGTCTGG AGTTCCTTGA 60
 CTAGGAAGAT GGATGAAAAC AGCAAGCCTG TGGATNGAGA CTACAGGGGA TATGGGAGGC 120
 AGGGAAGAGG GGTGTTTCT TTTAATAAAT CATCATTTGT AAA 163

SEQ ID NO:6894
 30 SEQUENCE LENGTH:253
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08125
 SEQUENCE DESCRIPTION:
 35 GATCACCTGA GGTGAGGAGT TTGAGACCAG CCTGGCCAAC ATGGTGAAAC GCCATCTCTA 60
 CTAATAATTGA AAAATTAGCT GGGCATGGTG GCAGGTGCCT GTAATCCCAG CTATTGGGGA 120
 GGCTGAAGCA GGAGAATCGC TTGAAACAGG AGGCAGAGAT TGCAGTGAGC CGAGNGGGGN 180
 40 GCCACTGCAC TCCAGCCTGG GCAACAGGAA CAAAACCTCTA TCTCAAAAAA TAAACAAGA 240
 TTTTCTGCG AAA 253

SEQ ID NO:6895
 45 SEQUENCE LENGTH:99
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08126
 SEQUENCE DESCRIPTION:
 50 GATCACTTGC AGCCCAGNAA GTTTGAGACC ACCCTGACCA ACACAGTGAA ACCCNCTCTC 60
 TAAAAAAGTT TGTTTTTAAA GTCTCCTTGA AACATCAAA 99

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EP 0 679 716 A1

SEQ ID NO:6896

SEQUENCE LENGTH:286

SEQUENCE TYPE:nucleic acid

5 TOPOLOGY:linear

CLONE:HUMGS08127

SEQUENCE DESCRIPTION:

10 GATCAAGCTA TGCCTGATNC TGCCTTAAGC CTTATNAGGT CGCCACGGAA CCGCAGAAAC 60
TCCTGGTGGG CAGAGCTGTG TGTGCCATCT TCATCATTGC ATTACCACCA CCAAGCACAG 120
TGCCTGGCAC AAAAGAGTTG CTCATAAAT AAATCAGGAT GANTGGNTAA ATACATGGNT 180
AGGCACTTTG AGCTACAGAT GCGTTAAAT ACTTTGTGTT TTTCTTAGTC AAACATGTGC 240
ANTTANGCAT GTGATAAATG CTATGATGAC CACAANANTG CACAAA 286

15 SEQ ID NO:6897

SEQUENCE LENGTH:137

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

20 CLONE:HUMGS08128

SEQUENCE DESCRIPTION:

GATCATGGTG AAATATTTN GATATATAAA TTCCTTAAGC TATTGTAACC ATGTTTTATT 60
GCAAAGATGT AAAATATGCC AGATGTGTGT NAGTTGGAAA TCAAAAAAG NAAAATAAAN 120
TATGCAAAGA NTTCAAA 137

25 SEQ ID NO:6898

SEQUENCE LENGTH:290

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30 CLONE:HUMGS08129

SEQUENCE DESCRIPTION:

35 GATCCGCAAC AACTCAGCCA TCCACATCCG AGTCTTCAGG GTCACACCCA AGTAATTGAA 60
AAGACACTCC TCCACTTATC CGNTCCGTGA TATGGCTCTT CGCATGCTGA GACTGGACC 120
TCGGACCAGA GCCATGTAAG AAAAGGCCTG TTCCCTGGAA GCCCAAAGNA CTCTGAATTG 180
AGGGTGGGGG TAATTGTNTG TTGGTNGGCC CAGTTAGTGG GCTTTNNTAA GTGTGTGTAT 240
GCGGTCTGTA NCTATTGCCA TATAAATAAA NAATCCTGTT GNACTNGTAN 290

40 SEQ ID NO:6899

SEQUENCE LENGTH:71

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

45 CLONE:HUMGS08130

SEQUENCE DESCRIPTION:

GATCATAAAA CGTTGTAAGT TTTCTAAAAC ACATAAGCTC TCAATAAAGC TTAGCTTATC 60
ATTGTCACAA A 71

50 SEQ ID NO:6900

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EP 0 679 716 A1

SEQUENCE LENGTH:211
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 5 CLONE:HUMGS08131
 SEQUENCE DESCRIPTION:
 GATCAAACAC TGTCAGAATT GCTGAAATCA ATACACAAAG AGATAAAGTT TAGCTTCTTT 60
 TTACTATTCA ATATTGAACA TAATATTGTT AAATATNGNG ATGAAATGCT GTTGGATNTG 120
 10 CTNCATTAAA TCTTAATGTA ATATTGTAAG NCTTTTGAGA ATATACTTGA TTAATAATGTG 180
 AAAGNNGGGN TTGTTANCTT ATTGCTATNC N 211

SEQ ID NO:6901
 SEQUENCE LENGTH:81
 15 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08132
 SEQUENCE DESCRIPTION:
 GATCATCATC TNCTTGCGGA CTTCTCTGCC TGGTCTTGTG TGTTCGTGA TTCAAACAAT 60
 20 AAAANGCTGG TNGAACTTAA A 81

SEQ ID NO:6902
 SEQUENCE LENGTH:175
 25 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08133
 SEQUENCE DESCRIPTION:
 GATCAGACAC TGCCTTTTGT GTGTTTGCTG CCTNTGGATN CTTTTTAAA AAGACTGTGA 60
 30 CATATTAAAA NAGTGTACAT ATATAAATAT NACCTCTTTT GCTGTACAGT TGTGATAGAG 120
 ACTGAAGNTT TTATTTTNG TGTGCTTTT ATAAGNAAAA ANTTAATACA CTAAN 175

SEQ ID NO:6903
 35 SEQUENCE LENGTH:92
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08134
 SEQUENCE DESCRIPTION:
 40 GATCATCTAA TTCTCTGTGG AATAAATACA CACATATATA TTACAAGGGA TAATTAGAC 60
 CCCATACAAG TTTATAAAGA GTCATTGTGA AA 92

SEQ ID NO:6904
 45 SEQUENCE LENGTH:312
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08135
 SEQUENCE DESCRIPTION:
 50 GATCTGGAAA ATACTGGAAA ATGTGATACT TAGAATACTT TGGCTGCTAA GGAAACTTCC 60

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EP 0 679 716 A1

5 TCTCCATTGC AGAATAGCTG AGCCAAGTNA GTGAGTTTNC AGAAAGCAGG TGGTGAGCTC 120
 NTGCCTGCTG GAGGTTGCCA TGGAGGGCCA TTCCTGCCCC GCAACAGCAC CGTCCTGCAG 180
 GGAGCCACTT GGCAGAAGGG TGCAGGGCTG CTGGTGTGAG AGCAAGAGGG CTACAGGGAA 240
 AGGGCCCTTT CTCAGGGGAT GTNGNTTTT TAAAAGGTTT GGGNACACTT GCGGGGTTTG 300
 CTAATAATTGA GN 312

10 SEQ ID NO:6905
 SEQUENCE LENGTH:123
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08136
 15 SEQUENCE DESCRIPTION:
 GATCTCTCTT GCAGCTTGAG AATGTCCCAG TTAAGCCACT TAAAAANTCC TCTNTCCTGC 60
 AGCCCAACAC TTTNCTAAGA GGTACAGAAA NGANAGGAAA TAAACACAC ATCATTATGG 120
 AAA 123

20 SEQ ID NO:6906
 SEQUENCE LENGTH:212
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 25 CLONE:HUMGS08137
 SEQUENCE DESCRIPTION:
 GATCTCAACA CAGACCCTNA CCAGCTGATN AATNCAGTNA ACACACTGGA CAGGGATGTC 60
 CTCAACCAGC TACACGTACA GCTCATGGAG CTGAGGAGCT GCAAGGNTTA CAAGCAGTGT 120
 AACCCCGGGA CTCGAAACAT GGACCTGGGG ACTTAAAGAT GGAGGAAGCT ATGAGCAATA 180
 30 CAGGCAGTTT CAGCGTCGAA AGTGGCCAGA AN 212

35 SEQ ID NO:6907
 SEQUENCE LENGTH:235
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08138
 SEQUENCE DESCRIPTION:
 GATCAAGCCA AAAGAAATAT TTTNAAATA AGCCCTTTTC AAAAGTTTTT GAATTTATAG 60
 40 AAAGCACCAA TGAATAACAT ATTTCTGTTT CGTTAATGTC AGCTGCCTGA ACATTCAGCA 120
 GTTTATAAAT TGCTTAATTT GTGTNATCTA TTATCCAGTA AACCCATAGT TCCATGATAT 180
 GTCACAGGNA TTGTNAGGTC CTATTTTAAA GGTACAGTCT TGTGGNATGT CATCN 235

45 SEQ ID NO:6908
 SEQUENCE LENGTH:224
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08139
 50 SEQUENCE DESCRIPTION:
 GATCCTTTGA GCCCAGAAGT TGGAGACCAG CCTGGACAAC ATGACAAAAC CCCATCTCTA 60

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EP 0 679 716 A1

5 CAGAAAATTT AAAAATTGGC CAGGCGTGGT CGCGCACGCT GTAGTCCCAG CTATTCAAAA 120
 GGCTGAGGTG GGAGGATTAT GTCCCTGGAG CCCAGGAAGT GGNGGTTGCA GNGATTGCAT 180
 CACTGCATTT NAGCCTGGGT GACAGNGTAC GCCNCTGTAT CAAA 224

10 SEQ ID NO:6909
 SEQUENCE LENGTH:215
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08140
 SEQUENCE DESCRIPTION:
 15 GATCCTGCTG GCCAGAAGCA AGCGGGNCG GCAATAAATC CAAGAAATTG TCCAACAAC 60
 CACCAATTCT TACGGAGGAN TATTATTTAG CCAGCAGGAG TCGNGTTGG TTTACTGCTT 120
 TTACTGTTTT GNGTTCATGN CTNTTTATTT TAATGGCGTT AAAAGCACAG GCAAATGTCT 180
 TTGGTAATGC AGCTTAGTAT GANTTCTNTT ANAGN 215

20 SEQ ID NO:6910
 SEQUENCE LENGTH:253
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08141
 25 SEQUENCE DESCRIPTION:
 GATCACAGAC TCTGAAGNCA GACTGGCAAG ATTCAAATCC CGACTGCCAT TTTAACTGA 60
 AAGACCTTAG GTAAGTTACC TAACCTCTCT GTACCTGTGT AAAATGGNGA TAACAGTAGT 120
 ATCCACTTCA CAGAGTTATG AGGNTGAAAT ACATTCATAT TTATAAACG TTTGGACCCA 180
 GTACTTGCA CATAGTAAGG CCATGTAAAT GTTTGTAAAA TAAACTGNA AATAAGCCA 240
 30 TNTCCNAATN AAA 253

35 SEQ ID NO:6911
 SEQUENCE LENGTH:359
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08142
 SEQUENCE DESCRIPTION:
 40 GATCACACTG CTGCAAGACC TGACCAGTTG AGCTTCCGGC GTGGGGAAGT GCTGCGTGTC 60
 ATNACCACAN TGGATGAGGA CTGGCTCCGC TGTGGGCGGG ATGGCATGGA GGGTCTNGTG 120
 CCTGTGGGGT ATACCNACCT TGTCTGTAG CCCTGGNGNC CTTTCCTGCG TATGTGTCTC 180
 CTTCTGTCA CCTGGGCATG GAATGGCCAG TGAACACCAT CCCAGAAGCA TTTCCCTCT 240
 GCAAAATGAC GTTCTTCCC ACGTCTGTTT CTGCTAATAT TAAAAATAA CTTTCCTTCT 300
 45 TCCCTCCTAT ACCANCTGTA AGGGAATAAT TGCTCTTNTT CCAAATATAT AAAAAGGTN 359

50 SEQ ID NO:6912
 SEQUENCE LENGTH:49
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08143

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SEQUENCE DESCRIPTION:

GATCTTTTAC ATTGCAAACA AAATGCTGTA TTGCTTAAAA GGGTTGAAA

49

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SEQ ID NO:6913

SEQUENCE LENGTH:30

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS08144

SEQUENCE DESCRIPTION:

GATCAGTTAA TAAACATGAG TAGCTTGAAA

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SEQ ID NO:6914

SEQUENCE LENGTH:128

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08145

20

SEQUENCE DESCRIPTION:

GATCTGAACT GTACAAAGTT CTCATAGCAC CNCTGGGAAG AGAAGGACGT AAACAGAACC 60

TGACACCAGC TCCTTTTCCT TNTATACATT ATTTAATACC TATTAAATAC AATTATTTT 120

GGAATAAA 128

25

SEQ ID NO:6915

SEQUENCE LENGTH:425

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30

CLONE:HUMGS08146

SEQUENCE DESCRIPTION:

GATCTACTTG TAACITGTTG GCCTTCTTCC CACATCTGCC TCANACTGGG GGGGGCTCAG 60

CTCCTCGGGT GATATCTAGC CTGCTTGTA GCTCTAGCAG GGATAAGGAG AGCTGAGATT 120

GGAGGGAATT GTGTTGCTCC TGGAGGGAGC CCAGGCATCA TTAACAAGC CAGTAGGTCA 180

35

CCTGGCTTCC GNGGGCCAAT TCATCTTTCA GACAATCTT AGCAGAAATG GACTCAGGGA 240

AGAGACTCAC ATGCTTTGGT TAGTATCTGT GTTCCGGTG GGTGTAATAG GGGNTTAGCC 300

CCNGAAGGGN CTGAGCTAAA CAGTGTTATT ATGGGAAAGG AATGGCATTN CTNGTTTCAA 360

CNAGCGCTAN ATGCAACCAT TNCNCTNTTG TTATAGTATC TAAGGGTNNG NNAGTTAAAC 420

GGTTN 425

40

SEQ ID NO:6916

SEQUENCE LENGTH:81

SEQUENCE TYPE:nucleic acid

45

TOPOLOGY:linear

CLONE:HUMGS08147

SEQUENCE DESCRIPTION:

GATCCACCAC CCAGCTTCAC CCCTCACCCC CAGCGGCTCA CCATGGGGAT GGCAGCAATA 60

AAATACTTCT AATGGAACAA A 81

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55

SEQ ID NO:6917
 SEQUENCE LENGTH:254
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08148
 SEQUENCE DESCRIPTION:
 GATCAACAAG CTTNCCACG AATTTAAGAG TTTTATCAAG ATATATCGAA TACTTCTACC 60
 CATCTGTTCA TAGTTTATGG ACTGATGTTT CAAGNTTGTG TCATTCCCTT GCATATAATT 120
 AAACCTGGAA CAACATGCAC TAGNTTATG TCAGNAATAT CTGTTGGNTT TCCAAAGGNT 180
 GTTAACAGAT GANGTTTATG TGCAAAAAAG GGTAAAGATAT AAATNCAAGG AAGNAAAANN 240
 GTTGNTAGCT AAAN 254

SEQ ID NO:6918
 SEQUENCE LENGTH:134
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08149
 SEQUENCE DESCRIPTION:
 GATCAGAGGA ACCTTAGAGG CCTGAAATTG TTGCTTCCAG TTTAGTGCC CCTCAAATTC 60
 AAGTGAATAT TTTCCCTTCT CCCTTTACCC TTCTCCAGAA ATAAAGCAGG TGACAGGGTT 120
 TTNAGAATCT TAAA 134

SEQ ID NO:6919
 SEQUENCE LENGTH:277
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08150
 SEQUENCE DESCRIPTION:
 GATCAAGAGT AATTACCAAC TTAATGTTTT TGCATTGGAC TTTGAGTTAA GNTTATTTTT 60
 NAAATCCTGA GGACTAGCAT TAATTGACAG CTGACCCAGG TGCTACACAG AAGTGGCTTC 120
 AGTGAATCTA GGAAGACAGC AGCAGACAGG ATTCCAGGAA CCAGTGTTTG NTGNGGCTAG 180
 GNCTGAGGAG CAAGCGAGCA AGCAGAGNAA GAAAAGTTAA ATACCAGNTA AGCTTTTGAT 240
 TTTTGTATTG TTTGCATCCC CTTGCCCTCA ATAAACN 277

SEQ ID NO:6920
 SEQUENCE LENGTH:255
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08151
 SEQUENCE DESCRIPTION:
 GATCTACCAC CAGAGAGTTC AACTGGNGA AAGNCCTCAT GAGTGCAATN AATGTGGAAA 60
 ATCCTTTAGC CGAAGCTCCA GCCTCATTCA CCACCGGAGA CTTCACTG GAGAAAGACC 120
 CTATGCGTGC AGTAAATGTG GGCAGTCATT TAAGCAAAGC TCCAGCTTCA GTTCACATCG 180
 GAAAGTCCAC ACNNGGGGANN GGCCTTATGT GTGTGGGGNC TNTGGGNANT CCTTTAGCCA 240
 TAGCTCCANC CTTAN 255

SEQ ID NO:6921
 SEQUENCE LENGTH:273
 SEQUENCE TYPE:nucleic acid
 5 TOPOLOGY:linear
 CLONE:HUMGS08153
 SEQUENCE DESCRIPTION:
 GATCTGGCTT NTCCNGGAGG CTNCCATGGT TGGAGATGG TATCAGAGGG CCTGCCTGGG 60
 CAGTCTGTCT CCGGGCCAGG GTCAGGGACC CTCTGCCTCT GGCAGCCTTA ACCTGTCCTC 120
 10 TGCTAGGACC AGGGTGATTT CAAGCCAGGG AAGCAACTGG GACCCGTAAA ACTGTCCCTC 180
 CCCAGCCCGG TCCNCGTGTA TGTGCCNTGG TCCCCTTGCT GCCATGTGA TGTGTTGTN 240
 ATTGCTGTTT GTATATTATC AAAATGTTTT TAN 273

SEQ ID NO:6922
 SEQUENCE LENGTH:83
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08154
 20 SEQUENCE DESCRIPTION:
 GATCTTCTTT ATAATATTT ATTGTTGAA TCACTTTAG GATGTAACCT TATAAATAA 60
 CATGAGCGCT GATGATTGC AAA 83

SEQ ID NO:6923
 SEQUENCE LENGTH:207
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08155
 30 SEQUENCE DESCRIPTION:
 GATCCTCATC TCCATCTCA TCCTCTTCT TCACAGCATT TACTTGGAGC TCTTTGTGAC 60
 ACACCATGTC AGTCATGATG AATCGGCCAA CAGCCAGCCC TTGCCAGCTG ACGTCACAGT 120
 CTAAGATGGG AAAGTGTGGT ACAGATAGAC ATGAAGAGAG CTTAGCAGTG ATTGAGGTGG 180
 35 TGACTAAATA TACAGTCATT GAATAAA 207

SEQ ID NO:6924
 SEQUENCE LENGTH:199
 SEQUENCE TYPE:nucleic acid
 40 TOPOLOGY:linear
 CLONE:HUMGS08156
 SEQUENCE DESCRIPTION:
 GATCACTGTG GGCTGGAGAG GAGAAGGAAA GGGTCTGCGC CANNCTGTCC GTCTTCACCC 60
 ATANCAAAGC ATACTAGAGC AAAAAACCAG TTGTAATATA AAATGCACTG CCCTACTGTT 120
 45 GGTATGACTA CCGTTACCTA CTNTTGTGAT TGTATTACA GCTATGGCCA CTATTATTAA 180
 AGAGCTGTGT AACATCAAA 199

SEQ ID NO:6925

SEQUENCE LENGTH:358

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

5 CLONE:HUMGS08157

SEQUENCE DESCRIPTION:

GATCATGCAG CAGAAGCAGA AAAAGGCAAA CNAGAAGAAG GAGGAACCCA AGTAGCTTTG 60
 TGGCTTCGTG TCCAACCCTC TTNCCCTTCG CCTGNTGCC TGGAGCCAGT CCCACCACGC 120
 TCGCNTTTCC TCCTGTAGTG CTCACAGGTC CCAGCACCGA TGGCATTCCC TTNCCCTGA 180
 10 GTCTGCAGCG GGTCCCTTTT GTNCTTCCTT CCCCTCAGGT AGCCTCTCTC CCCCTGGGCC 240
 ACTCCCGGGG GTGAGGGGGT TACCCNTTCC CAGTGTTTTT AATTCCTGTG GGGCTCACCC 300
 CAAAGTATTA AAAGTAGCTT TGAATTCCA AAAAAAANGG NNNNNAGGGN GGGGGGGN 358

15 SEQ ID NO:6926

SEQUENCE LENGTH:62

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

20 CLONE:HUMGS08158

SEQUENCE DESCRIPTION:

GATCTGTACA TTTACTATC TGTAATAAT TCTCAAAGA ATAAAATAAA AAAAAAGCA 60
 AA 62

25 SEQ ID NO:6927

SEQUENCE LENGTH:51

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30 CLONE:HUMGS08159

SEQUENCE DESCRIPTION:

GATCAGATAC AGCATTAAAC GTTCTCAGT CTCCTNTCC TCATCTGTAA A 51

35 SEQ ID NO:6928

SEQUENCE LENGTH:259

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40 CLONE:HUMGS08160

SEQUENCE DESCRIPTION:

GATCTTGCTA AAGTTAAAT AAGGAACATT TCACCTTTTA AATATTTAAT TCTNATGTGG 60
 ACTTATTTCC AGAAAACCTT GGTGATAATT CTTGAGACAA AAGGTGGTTA AGTAGCATT 120
 TTATGTAATG CTTATATACC ATAGAGTTTT TAATAGANGA GAAATCCATT TCCTCCGAGG 180
 GTCACTATTA ACAATGTACT TCCTTAAAT TNGTTAATG ATTGTGATGG GTGCTGCATT 240
 45 TGCACATTGC ATTANGGAN 259

50 SEQ ID NO:6929

SEQUENCE LENGTH:226

SEQUENCE TYPE:nucleic acid

55 TOPOLOGY:linear

CLONE:HUMGS08161

SEQUENCE DESCRIPTION:

5 GATCGGATGC TGAATAAAAC TCACCGTGAA GCAAGTCCCA CTGAACGAAA AGTTGGTCGT 60
AGCATTNTC AGCAGCTGCT TCCGGCTCCC TGAGACCCAG CCATGGAAGG CATAGAAAGG 120
CATGTGACAA GAAACTCATG GCTTTTAATC CTGGCAGGNC AAGGAAAACC CCGTCAAAGN 180
TTTGATAAN TTTTGCTGCT CTCCTGCTGG GGGGGGNNNG NNNNNN 226

SEQ ID NO:6930

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SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08162

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SEQUENCE DESCRIPTION:

GATCGTTCTT GATTTTGTTC TCATTAGTGT CATTCTTTG TCATTGAGGA CTTTCCCT 60
TACAACAGTA ACACCATTTT TTGAAGAGCA AACTTATAA TACCTCCTGG GATTGTNAGC 120
TAGTCATTCA GCCTGTGTAA CCATGTGGAA ATAAAAATTG ACGACCAATG TATTATATGG 180
ACAACTTTTG CTTTGAGTAA TAAACTTGAT TGTAGGAAA 219

20

SEQ ID NO:6931

SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

25

TOPOLOGY:linear

CLONE:HUMGS08163

SEQUENCE DESCRIPTION:

GATCCACCC ATCTTTTAC TTTAAGAAAA AACAAATAAT TGTTGCAGAG GTGTCTGTAT 60
TTTGAGCTG CCTTTTGTG AGANGCACTT TTCCCAAATA AAACAATTAA A 111

30

SEQ ID NO:6932

SEQUENCE LENGTH:109

SEQUENCE TYPE:nucleic acid

35

TOPOLOGY:linear

CLONE:HUMGS08164

SEQUENCE DESCRIPTION:

GATCATTGA AATNTCTGGG AGTCTGAGG GTACTGACAT AATNACCTGC TGGAGTCTGT 60
AAATACACAT TTAAGACAGT GAGGATGTGA ATAAATATAT TAATGCAAA 109

40

SEQ ID NO:6933

SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

45

TOPOLOGY:linear

CLONE:HUMGS08165

SEQUENCE DESCRIPTION:

GATCAAATAG AGCCCTGTCC AGGTAGAAAA GAAATGGTAT GTAGAGCTTA GATGTCCCTA 60
TTGTGACAGA GCCATGGTGT GTTTGTNNTA ATAAANCCAA AGAAACATAA A 111

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SEQ ID NO:6934
SEQUENCE LENGTH:243
SEQUENCE TYPE:nucleic acid
5 TOPOLOGY:linear
CLONE:HUMGS08166
SEQUENCE DESCRIPTION:
GATCCCAGCT GTTCTAGGCA GGGCCAGGCA GAGTGGGGCG CAGGCCCTNG AAGGGCGAGA 60
10 CCCAGTGGCT GGGCTGCCCA GGGCTGAGGG GCCGCCTCTT GAGGGTACAC GCCTCTGGTC 120
ACATGGCCAT GGAGCCTTGG GTACCCCTGA GTTAAGGGAG GACATTGGC CAGCTGGTGG 180
CTGGGAGGGG AGCCTGGCTG CCCTGCTGCT TCTCCTGCCT AATAAACAGG CTTCTCCTGC 240
AAA 243

15 SEQ ID NO:6935
SEQUENCE LENGTH:124
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08167
20 SEQUENCE DESCRIPTION:
GATCTATTTT NATAGTTCT TTTTCAGAAG TAAAATTTTG TACATATATA CATGTACATA 60
TCTNNTTAGT TTGGGTTCAT TTCTATAACA TTTTGTAGA AAATAAAAGT TTGAGCACCT 120
GAAA 124

25 SEQ ID NO:6936
SEQUENCE LENGTH:169
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
30 CLONE:HUMGS08168
SEQUENCE DESCRIPTION:
GATCAGTTGT ATGTAAATGT ACATTTTGT NACTTTGGCT GTGCCCCTTA GAATTTATCT 60
TCCATAAAGT ATTTCTCCCA TTGAGTCTAA TGATGTATAC TTTGCCTAGG TCTTTCCAAA 120
35 ATTAAATTTA TGTAATGTC TATTTTATAT AAAATATGNT TAAAATAAA 169

40 SEQ ID NO:6937
SEQUENCE LENGTH:314
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08169
SEQUENCE DESCRIPTION:
GATCACATTT AGGAGCAAGC AGGTGAGGGC AGAGGTGCTG GAGTGAACGT CGGCTCTTTG 60
45 GCTGCTAGCC TTACCCACTG AGGGAGAGGA GCTGAAACAT GAAATGGGGA TCGGTGANCA 120
ATGCTCTCCT TTTGCAGAGC TGTATTGACT TGTTCAGAA TAACTGATAT GCCTTCACTC 180
AGAAGAAAAG AAATGAATGT GAAAGAAAGC CAAGCATCNN TTTGCACTTA AATCANTTAC 240
CACGGAAGNT ATATTAGCT TCAACTTTAG TTAAAAATTA TGTGAATTAA ATATTTTGAT 300
50 TTCCCTGGGN NAAA 314

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5 SEQ ID NO:6938
 SEQUENCE LENGTH:46
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08170
 SEQUENCE DESCRIPTION:
 GATCAAGTGA CTGTTTAATA AATNAGTTGC TTGGGTAGAA TGGAAA 46

10 SEQ ID NO:6939
 SEQUENCE LENGTH:21
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 15 CLONE:HUMGS08172
 SEQUENCE DESCRIPTION:
 GATCTTGCTG AAAACCAGAA A 21

20 SEQ ID NO:6940
 SEQUENCE LENGTH:85
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08173
 25 SEQUENCE DESCRIPTION:
 GATCAACAAT CATCACCTGC CTTTGTAGA AAAGAAAAAC AAAAAAGTA AATAAAATT 60
 TTAAACAGTA AAATAAAAGT TTAAA 85

30 SEQ ID NO:6941
 SEQUENCE LENGTH:274
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08174
 35 SEQUENCE DESCRIPTION:
 GATCACTACT GCAGCAGAAT GGTCTATGTN ATTTTCCTTC TTTGGTTTT NCCTGACTTA 60
 CATTCGTAAT TTTAAGAAAA TTTCTTTACG GGTGGAAGCC AATTACATG GATTAAACCT 120
 CTATGACACT GCACCTTGCC CTATTAACAA TGAACGAACA CGGCTACTTT CCAGAGATAT 180
 TTNATGAAAG GATAAAATAT TTCTGTAATG ATTATGATTC TCAGGGATTG GGGNAAGGTT 240
 40 CACAGNAGTT GCTTATTCTN CTCTGTAATT TTAN 274

45 SEQ ID NO:6942
 SEQUENCE LENGTH:246
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08175
 SEQUENCE DESCRIPTION:
 50 GATCTAAGTT GGGCAAAAGA GAGTCATCCT GTTACCTTAA AAAGGAGTCT AGGGTGAGCC 60
 CCAGTCTGCT GGTGGCCATC TTCACCACCT TTGGGGAGAG ATGGCCTCNG CAGACACACA 120

55

AAGCAAAGAG GTGGAGAGAA ACTGTGTCTT TGTGTCATTG TTTGAGTCCC TGGACCCAGC 180
 CCAGTCCCC CGACTACGCT GANCTTTTCA ATTGTGGGGG GCAATAAATT CCATTAGTT 240
 ANGAAA 246

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SEQ ID NO:6943
 SEQUENCE LENGTH:215
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS08176
 SEQUENCE DESCRIPTION:
 GATCCACATN ATACCGGTGC TGAAGACCTG CAAGTNATTT TGGAAAAGGG CTGGTGCGGA 60
 TGGAAAGGGCC CAGATTTTGG GAACAAGGAT GCATACTATA ACTTATGTCT TCCTCAGCGA 120
 CCAAATATGA TTTAAATAT CTTGGAGTCA AAGACTGCAG TAGAGTGGA TTATAAATTT 180
 NTGAATAAAG AATCAGTTA NTTTTTCACA TTAAT 215

15

SEQ ID NO:6944
 SEQUENCE LENGTH:171
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08177

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SEQUENCE DESCRIPTION:
 GATCTGGACA CGAGCAGTCC CTGAGGGGCG GGGTCCCTGG CGTGAGGCC CCGTNACAGC 60
 CCACCCTGGG GTGGGTATTG TGGGCACTGC TGCTCTGCTA GGGAGAAGCC TGTGTGGGGC 120
 ACACCTCTTC AAGGGAGCGT GAACTTTATA AATAAATCAG TTCTGTTTAA A 171

25

SEQ ID NO:6945
 SEQUENCE LENGTH:161
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08178

30

SEQUENCE DESCRIPTION:
 GATCGGCCCC GGAAAAAGTC TGCCCCAGAA ACTCTCACAC TTCCAGACCC TGAGAAAAAA 60
 GCCACCCTGA ATTTACCCGG CATGCACTCT TCAGATAAGC CATGTCGGCC CAAATCTGAG 120
 TAACTTTATA TAANTATCTC ATGGGGTTTT ATATTTTCAA A 161

35

SEQ ID NO:6946
 SEQUENCE LENGTH:251
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08179

40

SEQUENCE DESCRIPTION:
 GATCCTTGGG GAAGGTTTCA GTTGCCTGT ATGCTGTTGG ATTTGCCAAG TCTTTGTATA 60
 ACATAATCAT GTTTCCAAAG CACTTCTGGT GACACTTGTC ATCCAGTGT AGTTTGCAAG 120
 TAATTTGCTT TCTGAGATAG AATATCTGGC AGAAGTGTA AACTGTATTG CATGCTGCGG 180
 CCTGTGCAAG GAACACTTCC ACATGTGAGT TTTACACAAC AACAAATGAA AATAAATTTT 240

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AATTTTATAA A

251

SEQ ID NO:6947

SEQUENCE LENGTH:277

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08180

SEQUENCE DESCRIPTION:

GATCCCTCTT GGTGTGAGTT TTCTGACCCA ACCAGCCTCT GGTTAGCATC ATTTGTACAT 60
 TTAAACCTGT AAATAGTTGT TACAAAGCAA AGAGATTATT TATTCCATC CAAAGCTCTT 120
 TTGAACACCC CCCNCACTTT ANTCCNTNGT TCAGGCCGAT GNGCTTGCTT TCCTTCANCC 180
 TGTTTGTTTT CTTATTTAGG NCTATTTATT ANTGGTTGGN CCAATGTACT CACAGCTGTT 240
 GCGTCGAGCA GTCCTTNGTG AAANTNCTGT ATAANTN 277

SEQ ID NO:6948

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08181

SEQUENCE DESCRIPTION:

GATCCAGCTT CAGCTGCACA CCTNTGTCCC CTTGGATGGG GNACTAAGGG NAAACGTCTG 60
 TTGTATCACT GAAGTTTTTT GTTTGTTC NATACGTGTC TGCATAAAAA TGCCAAAGTT 120
 TTTTTTCAAA 130

SEQ ID NO:6949

SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08182

SEQUENCE DESCRIPTION:

GATCACCAAT NNTNNCTTTG AGCCAGCCAA CCAGATGGNG AAATATGACC CTCGCCATGG 60
 TAAATACATG GCTTGCTGCC TGTAATACCG TGGTGACGTG N 101

SEQ ID NO:6950

SEQUENCE LENGTH:304

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08184

SEQUENCE DESCRIPTION:

GATCATGAAG ACCTGCTTTA GCCCCAACAG AGTGATTGGA CTCTCAAGTG ACTTGCAGCA 60
 AGTAGGAGGG GCATCAGCTC GCATCCAGGA TGCCCTGAGT ACAGTGTTC AATATGCAGA 120
 GGATGTACTG TCTGGAAGG TGTCAGCTGA CAATACTGTG GGCCGCTTCC TGATGAGCCT 180
 GGTTAACCAA GTACCGAAAA TAGTTCCCGA TGACTTTNAG ACCATGCTCA ACAGCAACAT 240
 CAATGACCTT TTGATGGTGA CCTACCTGGC CAACCTCACA CAGTCACAGA TTGCACTCAA 300
 TGAN 304

SEQ ID NO:6951
 SEQUENCE LENGTH:268
 SEQUENCE TYPE:nucleic acid
 5 TOPOLOGY:linear
 CLONE:HUMGS08185
 SEQUENCE DESCRIPTION:
 GATCCTATCT GTNCTGGCAG GACTGGCAGN CATGGTGGGC TACGCCTTGC TCAGNGGCAT 60
 10 TGTCTCCATN CAGNGGGCAA CGCTGCTCGG GCCCCAGGCA CCCGGACCCT GGGCATGGCT 120
 GAGGAGGATG AAGAGGAATN ATTTGTCCTC ACGCTCCAA GACTGGTTTT TNTACTCTNA 180
 TGCATTCCAG NGGCCCCCGT GCCTCCTCGT TGTGGTACA GCCGGACACG GGGTGCTGCC 240
 ACCCAGAATA AAGCCACTCA CACTGAAA 268

15 SEQ ID NO:6952
 SEQUENCE LENGTH:152
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08186
 20 SEQUENCE DESCRIPTION:
 GATCCACCG AAGCAGCGTG TCCTCCGTGG GAGCCCGAGG TGGGTCCAC CCGCATCTCC 60
 TCTTCCACAC CCTCCTGGGA CCCAGCCCT GGAGAAGTAG CTCTGGCTTG TTTCTTTTT 120
 NATTAAGAT AATTTATGTA TCGACTAAGA AA 152

25 SEQ ID NO:6953
 SEQUENCE LENGTH:72
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 30 CLONE:HUMGS08188
 SEQUENCE DESCRIPTION:
 GATCAGTGGG TCTAAGTNTC CGAGACTTAA CGAAAATAGT ATTCAGCTG CAATAAAGAT 60
 TGAGTTTGCA AA 72

35 SEQ ID NO:6954
 SEQUENCE LENGTH:293
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 40 CLONE:HUMGS08189
 SEQUENCE DESCRIPTION:
 GATCAGCATC CTNCGNTGCC CCTTAGCAAC TNAGGTGGTT GATTGAAAC TGTGAAGGTG 60
 TGATTTTTTC AGGAGCTGGA AGTCTTAGAA AAGCCTNGTA AATGCCTATA TTGTGGGCTT 120
 45 TTAACGTATT TAAGGGACCA CTTAAGACGA GATTAGATGG GCTCTTCTGG ATTTGTNCCT 180
 CATTGTGAC AGGTGTCTTG TGATTGANAA TCATGAGCGA AGTGAAATTG CNTTGANTTT 240
 CAAGGGAATT TAGTATGTNA ATCGTGCCTT NGAAACANGG GGGNAAAAAN ATN 293

50 SEQ ID NO:6955

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SEQUENCE LENGTH:184

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08190

SEQUENCE DESCRIPTION:

GATCCTTCAA TAAAAATCA ATGTGTGAAG GTTCCTAGGC ATAAAAGGAA GTTCAGAAGG 60
 NTATGTAGGA AATACTGTTG TCTCTCTGGG GATTGGGATT ACAGGGATTT TTCCTCTTT 120
 NCTTTTGTGTT AAGTTTGTGT TTCCTAAAGT TTCTGCAATA AACGTACGAT GCTTGATAA 180
 TAAA 184

SEQ ID NO:6956

SEQUENCE LENGTH:327

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08191

SEQUENCE DESCRIPTION:

GATCTTGAAT TTCTACATAA CTTTCTCAGT TTATATGCCC TGTGGCAAGT GCAGCAAGCA 60
 CTGTTTCCTG TTTCTAAACT TGTAGAAAAT CATCCATACA TCTTACAGTT GTCAGTTTTA 120
 ACCAGATAAC AGTGGCACTT TGTGCTGCT TTTTATCTT TAGCTTAGGT TAACAGGACC 180
 CTGGAAGTAA AGTTGTTGAT TTATTCAATA GAGTATTCTC AATTAATTTG GCTAGATTTC 240
 TACATGATTC AAANTCTAAA AANGTAGACA TGCATGCTTA CATGTCTAAG GCCTGAAAAA 300
 TTGGNGGGGN CATCCCAAAA TAAATGN 327

SEQ ID NO:6957

SEQUENCE LENGTH:22

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08192

SEQUENCE DESCRIPTION:

GATCTAAGTG GTGGTATGGA AA 22

SEQ ID NO:6958

SEQUENCE LENGTH:223

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08193

SEQUENCE DESCRIPTION:

GATCTGTTGA CAATGGAGCA AGTGAAAGAC TTTGCTGCTA ATGTGTATGA AGCTTTTAGT 60
 ACCCCTCAGC AACTGGAGAA ATGATTTTCC CTTCAAGAAA AACTACAGTG GGATTCATTT 120
 ACTTTTTAAA ATACACTGGG TAAATCACCT ATACTTAGAG TAACAGTTTG TTATCAAAAT 180
 GCCTGNTAAA ATATATNCTT AATAAANGTC TTCATTTTCAT AAA 223

SEQ ID NO:6959

SEQUENCE LENGTH:331

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08194

SEQUENCE DESCRIPTION:

5 GATCTTACTT GCGAAATGCG ATGGTTGCTG GGAATACCTG AAAGTGTGGA TTATATTGCT 60
 TGACTTCTAC CTCAGAACTCT NCTTTGTTTC ATGACTTAAT AGTGCTTTAA GTNNGGTATA 120
 TNATTTNACC NCTAGGAATT CTNTGTTTTA CACAGAAATA AAAATTTTAA AATAGAAAAT 180
 GCTTTTACTT TGTAAGGTAA GNGAGTATCC ATATGCTTAG ATGTGCTCGT TTCTAAAATN 240
 10 CTAGNGGTTG CTATANTCAG CTCATGGAAT GCACAGCTAT TGCTTTTGT GNTAGATTGT 300
 ACATAAACAT CAGCAGNTGN AAGGGNAAAT N 331

SEQ ID NO:6960

SEQUENCE LENGTH:211

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08195

SEQUENCE DESCRIPTION:

20 GATCACCCAG ATGCAGTGAA GCTTTTNACC CGCCAGCTTT TGGAAGTCCA TCAGGGACAA 60
 GGCCTAGATA TTTACTGGAG GGCTAATTAC ACTTGTCCTCA CTGAAGAAGA ATATAAGCT 120
 ATGGTGCTGC AGAAAACAGG TGGACTGTTT GGATTAGCAG TAGGTCTCAT GCAGTTGTTT 180
 TCTGATTACA AAGAAGNTTT AAAACCGCAA A 211

25 SEQ ID NO:6961

SEQUENCE LENGTH:208

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08196

30 SEQUENCE DESCRIPTION:

GATCATTGTA GATGAAGTGA AGCAAGAAGT TATCAGTACC AGCAGCAAGG CAGANCCNCC 60
 CCAGTGCACC TCCCTGGCCT GGTCTGNTGA TGGCCAGACT CTGTTTGCTG GCTACACGGA 120
 CAACCTGGTG CGAGTGTGGC AGGTGACCAT TGGCACACGC TCGAAGTTTN TGGCAGAGCT 180
 35 TTNCAACTAA ANAANAANCT GGCATAAA 208

SEQ ID NO:6962

SEQUENCE LENGTH:165

SEQUENCE TYPE:nucleic acid

40 TOPOLOGY:linear

CLONE:HUMGS08197

SEQUENCE DESCRIPTION:

45 GATCCCAGCC CCTAGGTGGG CAGAGGCAGA CCCTCCCCAG AGCTCCTTAG GAAGAAGACA 60
 GACTGGTTCA TTGAATGCCG CCTTATTTAT TTCTGGTGAG GATGCATGCC TGGGGCTGCT 120
 GGTGTTTAGA GTGGGGGCTA CCCTTNTAAA TCACTGCTAC TCAAA 165

SEQ ID NO:6963

SEQUENCE LENGTH:280

50 SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear

CLONE:HUMGS08198

SEQUENCE DESCRIPTION:

5 GATCACTCTN GGTGAGTNC TCTTTCTTTA TCTNTCTTTC TCCTTTTTTA AGAAAACGAG 60
 TTAAGTTTAA CAGTTTTGCA TTACAGGCTT GTGATTCATG CTTACTGTAA AGTGGAAGTT 120
 GANCTTATTT TAAAACCTCA AGCTCAGTAA TTTTGAACAC TGNAACATTC ATCTAGGNCA 180
 TAATAACAAA GTTCAGTATT GACCATAACT GTTAAACAA TTTTAAGCTT TCCTCAAGTT 240
 AGTTNTGTTG TAGGNGTGA CCTAAGCAGG TAAGCGTANA 280

SEQ ID NO:6964

SEQUENCE LENGTH:51

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS08199

SEQUENCE DESCRIPTION:

GATCCATATA TGTGTGCATG TCATGAAATA AAAGNATCAC ACANCACAAA A 51

20 SEQ ID NO:6965

SEQUENCE LENGTH:155

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25 CLONE:HUMGS08200

SEQUENCE DESCRIPTION:

GATCTTGGAG CTTCCCTGTA GCCCACCTTC CCCGTGCTTC ATGTTTGTAG AGGAACCTTG 60
 TGCCGGCCAG GCCCAGTTTC CTTGTGTGAT AACTAATGT ATTTGCTTTT TTGGAAATA 120
 GAGAAAATCA ATAAATTGCT AGTGTTCCTT TGAAA 155

30 SEQ ID NO:6966

SEQUENCE LENGTH:58

SEQUENCE TYPE:nucleic acid

35 TOPOLOGY:linear

CLONE:HUMGS08201

SEQUENCE DESCRIPTION:

GATCCAGCAT TGGGGCCACT AACTCCAGC CTGGACCACG GAGCGAGACT GTCTCAAA 58

40 SEQ ID NO:6967

SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

45 CLONE:HUMGS08202

SEQUENCE DESCRIPTION:

GATCAGGCTT CAGGATAGCC CAGCACTGAG GACATCTAAA ACAGTCTTCA TTTATTTATT 60
 TATTGTTTAT AGTGTCCAAA AGTTGGAATT AAAGTGAATG GCTGAATCAA A 111

50 SEQ ID NO:6968

55

SEQUENCE LENGTH:39
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08203
 SEQUENCE DESCRIPTION:
 GATCATGACA AAGAAGATTA AAATTCATT AGCATGAAA 39

SEQ ID NO:6969
 SEQUENCE LENGTH:90
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08204
 SEQUENCE DESCRIPTION:
 GATCAATTGT ACCCCATACC TCAGCATCAT GCAATATAAC CATTAAAGAGA CCTGCACATG 60
 TATTCCCTGA ATTTAAAATA AAAGTTGAAA 90

SEQ ID NO:6970
 SEQUENCE LENGTH:315
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08205
 SEQUENCE DESCRIPTION:
 GATCATTGCA GTCTCTGGCT TTTTNACTCC AGGCGGGGCTC CGTGCCCTCC GGGGCCTCTT 60
 CTTCCCTTGTN AGGCCAGTGG GAGCCACAGA GGCCTCATTG GCTTCCTATG AATATNAAAT 120
 GGGATTCTCT GTGGGGGAAG CTTCCATAAG GCAGGAAGGG GTCCCGGTT GTTGGCTATN 180
 AGTGTTATTT NCTTTTAAAT CATCTGTGCT CCTTCAAAGA CGACGTAAGA AGCTTGTGCC 240
 CTGGCGTTGC AGAAATCTCT GGCTGTAGGG ATTAAACCTA CATGTCTTCC TGATGGGGTG 300
 GTGAGGACGT AAACN 315

SEQ ID NO:6971
 SEQUENCE LENGTH:262
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08206
 SEQUENCE DESCRIPTION:
 GATCACCTGA GGTGAGGAGT TCACGACCAG CCTGGCCAAC ATGGTGAAAC CTTCTCTAC 60
 TGAATAATACA AAAATTAGCC AGGTGTGGTG GCGCATACCT GTAGTCCCAG CTACTTGGGA 120
 GGCTGNGGCA GGNGAATCAC TTGAACTCGG GAGGCGAAGG TTGCAGTGAG CCGAGATTTC 180
 ACCAGTGCAC TCCAGCCTGG GTGACAGAGC AAGACTCCAT CTCAAAAAAA ANNTAATTAN 240
 AAAAAATTGC AGCTGCNGGA AA 262

SEQ ID NO:6972
 SEQUENCE LENGTH:118
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS08207

SEQUENCE DESCRIPTION:

5 GATCTTGCAG GTCTAGTATT TNAATAATGC ACTATTACCC AGGGCAGNTA TTATGAGAAA 60
CTGTTTCTNC TCTAAGGGTT TATGGCAGAC TTTGCTTTT NAACATGTGA GANATGAN 118

SEQ ID NO:6973

SEQUENCE LENGTH:152

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08208

SEQUENCE DESCRIPTION:

15 GATCTGAGTA TTCCCAAGG GCACTCAGCC ACAGGGNTGA ACTAGTGTTC GTTGTATCC 60
TTGCAGTTAT GTGACTTAAA GTGACTCAGA GATATCTATG TATGCNNGTG TACTCCGCTG 120
GCAATGAAGT AAATATATCA ATTTGTGGNA AA 152

SEQ ID NO:6974

SEQUENCE LENGTH:297

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08209

SEQUENCE DESCRIPTION:

25 GATCCTCCTG CTTTGGCCTC CCAAAATGCT GGGNTTATAG GCATGAGCCG CTGCACTTGG 60
CCTGNTACTG ATTTTAATNN CTTGCGTTAT CACATAGTGT TGTATTGAA ACATAGTTCA 120
TGGTTTTATC AAAGAACTGA AGNTGAGAAT ACTGGTCATC TAACTTTGTA ATTTGATTTG 180
ATTATACTGT AAAGTTTGAC AGTCTCATTT TATCACTGCG TTTGTATCTA TNACTAAANT 240
GTATTNTTTG ACCTCTTACT GATTCATTGT TGGTNTGTNC AAAGTGTGA CTNGNTN 297

SEQ ID NO:6975

SEQUENCE LENGTH:301

35 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08210

SEQUENCE DESCRIPTION:

40 GATCCTGTCA CCCAGGTAGT GAGTATAGCA CCCAGTGAAA CTGTAGTCTC ATNCCAGGCA 60
CTGTGCTAGC CCACTCTGGG TCATTTAATC CTCTCCTAAG AAGAGAGGAG ACACAGCGTC 120
CCCAITTGAC AGATGCAGAA AGAGGTTCCA CAGGTGTGCN TTGATTCTNT CCTAAAACCG 180
TTTCCCGGAA GCTTTTCCTG GTGTGGGCGC TTCTAACCTA ATCCTCAATC GNTTCCAGNA 240
CTATTACTCT GTTCCACAG TGNTACTGTG TCTAGGTTTT ANGGGCGGCA AGTTCNATT 300
N 301

45 SEQ ID NO:6976

SEQUENCE LENGTH:264

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

50 CLONE:HUMGS08211

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SEQUENCE DESCRIPTION:

5 GATCCTTCCG ACTTGGCCTC CCAAAGTGTT GGGATTACAG GCATTAGCTA CCACACCTGN 60
 CCAAGGCCCA GGTTCGACA GAAAGGGAGA GAAACCTGC CAGAGATGCC ATTCGGAGC 120
 CACTCTGCTT GGCAGGGACC TGTGTTCCCC TCATGCAGGT TCATCCTTAG AGGGCTGCCG 180
 TCTTATCTGG TTGTGCAAAA GTCCACAAC CTTTCTGGAT TGATAGTTTG TGGTGAANNT 240
 AAACAATTTT AGTTTGTGTTG GAAA 264

SEQ ID NO:6977

10

SEQUENCE LENGTH:318

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08212

15

SEQUENCE DESCRIPTION:

20 GATCAGAACT ACAATTACAA CCAGCATGCG TATCCCACTG CCTATGGTGG GAAGTACTCA 60
 GTCAAGACCC CTGCAAAGGG GGGAGTCTCA CTTCTTCCT CGGCTTCCCG GGTGCAACCT 120
 GGCCTGATGN AGTGGGTGAA GTTTTGGTAG GCAATTTCTT GCAACCACCA CCGNGGCCCC 180
 GNAAGCACT GGTGCTNAGG GAGCTCCTNN CCTTGGCCCN CACGCCTGTG CCAGCCCTGG 240
 NCCCGNCTGC CACACCTCTG TTTCTANGG CTGGGGACNC AGATTGTNTC TCCTTNITTC 300
 TTNCNACTGC AATGTGCN 318

SEQ ID NO:6978

25

SEQUENCE LENGTH:166

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08213

30

SEQUENCE DESCRIPTION:

GATCATNCTG CCCCATNTCC ACGCACCCAA AACCAGCCCT CTCGCTTCTA ACACAGGGCA 60
 CCTGCTGGGG CTCAGGGATG TTAGGGACGA GTTCCAGNCC TGCCACTNCC CTNGGGCGAC 120
 CCCTCNCTGT CCCTGCCTCC CTGCTCTGCC GCCCCTNTTN CTGGAN 166

SEQ ID NO:6979

35

SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08214

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SEQUENCE DESCRIPTION:

GATCCGATAC AGATTACATT TCTTGCCAGA GAGTGTGCT GTTGTTTCTT TAGGTAAGTG 60
 TGTATTGGTG ATTCCATAAT AAAAGCAGTA ACAATAACTA CAAA 105

SEQ ID NO:6980

45

SEQUENCE LENGTH:233

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08215

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SEQUENCE DESCRIPTION:

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5 GATCAGATAC ATGAACATGT CTTACATGGG TTGCTGTATT TAGAATTATA AACATTTTTC 60
 ATTATTGGAA AGTGTAAACGN GGACCTTCTG CATACTGTG TAGAACCAAA ACCACCATGA 120
 CACAGTTTTT ATAGTGTCTG TATATTGTN ATGCAATGGT CTTGTAAAGG TTTTAATGN 180
 AAACACCAT TAGCCAGTCT TTCTTACTGA CANTAAATTA TTAATAAANT AAA 233

10 SEQ ID NO:6981
 SEQUENCE LENGTH:72
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08216
 SEQUENCE DESCRIPTION:
 15 GATCTTTCCA GAGGTCCATG GTGGAAGACG ATAACCCTGT GAAATACTTT ATAAAATNTC 60
 TTAATGTTCA AA 72

20 SEQ ID NO:6982
 SEQUENCE LENGTH:58
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08217
 SEQUENCE DESCRIPTION:
 25 GATCACCCAT CTGTGTGCTT CCATCCTGCA TTAATAATCA CTCAGTGTGG CCCAGAAA 58

30 SEQ ID NO:6983
 SEQUENCE LENGTH:280
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08218
 SEQUENCE DESCRIPTION:
 35 GATCTCCAAC AGCCAGTGTG TGTTTCCCAT CTCTGTAGG TTCCATCAAT GGTGAGCACC 60
 AGCCTGAATG CAGAAGCGCT CCAGTATCTC CAAGGGTACC TTCAGGCAGC CAGTGTGACA 120
 CTGCTTTAAA CTGCATTTT CTAATGGGCT AAACCCAGAT GGTTCCTAG GAAATCACAG 180
 GCTTCTGAGC ACAGCTGCAT TAAANCAAAG GAAGTTCTCC TTTTGAACCT GTCACGGATT 240
 CCATCTTGTA AAGGATATTA AATGTTGCTT TAACCTGAAA 280

40 SEQ ID NO:6984
 SEQUENCE LENGTH:311
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08219
 45 SEQUENCE DESCRIPTION:
 GATCCAGAGA CTCGTGCTGT CTCTTTGTCC CTTTCCTGAT GGTGTTACTT CGATTAATA 60
 CTTCAGCTTG GTGTAAAAAT TGCCAAAGCA GTTGCCTGCC ACAACTTTGT AAAAGCCAAA 120
 AAGGAGGTTG AAAATTCACA GGCTGCCCGA AAAAAGANGA AACTTGCAAT GGGGTTTGAA 180
 GCAAAGNNGN GATGGGAAAC CNAAGCAAC ATGGGNTACA TGTAACCTGC CAGAGTGCTT 240
 50 CAAGACATTT GTAGCCTCAA ATGCTCAAAT TTANTGNGAA TGTTTCCTG CCTATGTTCA 300

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TATGTCAGGT N

311

SEQ ID NO:6985

SEQUENCE LENGTH:160

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08220

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTATAAAG GGGNGTTCTG CTGCATACAC TCTGTCTTGC CTGCTGNCAT 60
 GCAAGATGTG ACTTAGCTCC TCCTTTACCT TCCACCATGN TTGTNAGGCC TCCCAGCCA 120
 TGTGGAAC TGAGTTGANT AAACCTCTTT CCTTTATAAA 160

SEQ ID NO:6986

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08221

SEQUENCE DESCRIPTION:

GATCAAAAGA TAACTGCTTA TNATAGTAAG ATAACCTTG AACAGAACTG TGATTA AAAA 60
 CCTGAATAAT AAAAAACACA CAAGACCCAT TAAACCTAT TCCTCACTTT TAAAA 115

SEQ ID NO:6987

SEQUENCE LENGTH:331

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08222

SEQUENCE DESCRIPTION:

GATCCAGTTG GATATAGTAA CCACTGCCGA CTTNCTGGAT GTGCTAACTC ACACCAAGCC 60
 CTCCGNAAG AATCTGGCTC AGAGATACTC AGACTGGCAA AGAGAATTCG AGTCTGTCTG 120
 AAACCACATT TACCCTGACC TGGCCACAAA GGCAACCACA AAGACCTCCT AGTTTATTAN 180
 NGNCGTGGG AGAACAAAAT GATTGGAATG GAAAAGAGAA AATTATTTTT GANGACTGGA 240
 TTAACCTGAG CCACTGTATT GTTTGGNTA GCTGAGATAT ATTTNTTAAC TTTACCATT 300
 TCGATGTCAG CAAAATATTG AGAGTTTCTT N 331

SEQ ID NO:6988

SEQUENCE LENGTH:121

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08223

SEQUENCE DESCRIPTION:

GATCTACTCC CAGTTTTTAA CTTTNNACAG AATATTGTTG CTTTCCTACA ACAATGTACA 60
 TATATTNCA GTGTATATG CTTTTTTTTT TNCCAAATAA AGTTTGAGTT CTAAACTCAA 120
 A 121

SEQ ID NO:6989

SEQUENCE LENGTH:151
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 5 CLONE:HUMGS08224
 SEQUENCE DESCRIPTION:
 GATCCTTCCC TGGCTCTCAC CTGCTCCTTT AGGCTGTAAT TGCTTCCTAC ACACGAAGCC 60
 TCTGATTGGA GCCTCTGGTN CATCTCAGAA AAACCTTCCA AGAGCGCTGG GGTTTATGCT 120
 10 TTCTGAATAA AACTACTGT TTACATGGAA A 151

SEQ ID NO:6990
 SEQUENCE LENGTH:119
 SEQUENCE TYPE:nucleic acid
 15 TOPOLOGY:linear
 CLONE:HUMGS08225
 SEQUENCE DESCRIPTION:
 GATCTCCATA ATTTTAAGAT ACTCTATGTT AAACCTTTT TNAAGTNCCTC TTTTACATC 60
 ACGTCTGAAA TGCACGAGNG TGGCGGTTTC TGTTTCACTG GTTTNNTTGT TCATTTTNN 119
 20

SEQ ID NO:6991
 SEQUENCE LENGTH:116
 SEQUENCE TYPE:nucleic acid
 25 TOPOLOGY:linear
 CLONE:HUMGS08226
 SEQUENCE DESCRIPTION:
 GATCCCGGGC CGTTATCCAT CTGGAGGCTG CAGGGTCCTT GGGGTAACAG GGACCACAGA 60
 CCCCTCACCA CTCACAGATT CCTCACACTG GGGAAATAAA GCCATTTTCA AGGAAA 116
 30

SEQ ID NO:6992
 SEQUENCE LENGTH:207
 SEQUENCE TYPE:nucleic acid
 35 TOPOLOGY:linear
 CLONE:HUMGS08227
 SEQUENCE DESCRIPTION:
 GATCCGCTGG GACAGAGTGC CCACCGTCGT GTCTTTNATA TCTCTGTAAT AACCCACAGT 60
 TAAAAAGGGC AGGAAAAGGC ATCAGGGTAC CATGTTATCA GGCAAGTTCT TACATTCTAA 120
 40 GAAAATTCCT AGCTTTGTTG GGTGAGGCAA GTTTTAAAN GAANAATGTC ACTTCCCAT 180
 TTGATAANGA TTTGTTATC ANTAAA 207

SEQ ID NO:6993
 SEQUENCE LENGTH:325
 SEQUENCE TYPE:nucleic acid
 45 TOPOLOGY:linear
 CLONE:HUMGS08228
 SEQUENCE DESCRIPTION:
 50 GATCCTGATT GTAAGGTTTT CCACCTATTT CCCTGGATAT TTTNNTGGTC AGTACTGGCT 60

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CTGGTGGGTG TTCCTTGTTT TAGGCTTTCT CCTGTTTCTN AGAGGATTTA TCAATTATGC 120
 AAAAGTTTCGG AAGATGCCAG AAACCTTTCTC AAATCTCCCC AGGACCAGAG TTCTCTTTAT 180
 TTATTAAAGA TGTTTTCTGG CAAAGGCCTT CCTGCATTTA TGAATTNTGG TCTCAAGCAG 240
 CAAGNGAACA CCTGCAGGAN GTGAATCAAG CTGCAGAACA CAGAGGNNTA CTCACCTGCT 300
 TTAATAAAT ANAGTACTGT TGATN 325

SEQ ID NO:6994
 SEQUENCE LENGTH:130
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08229
 SEQUENCE DESCRIPTION:
 GATCCCTCGG GNNTTAANTA CANGAACCT AGAAGTACC AAAAGGCATT ATAAGTCTGA 60
 CTCAAATACA AGGTACAGAA GATAAGCATC TTTGAGGAAA CTCCTACTTC AGTTCTTTTG 120
 TTATNATGNN 130

SEQ ID NO:6995
 SEQUENCE LENGTH:116
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08230
 SEQUENCE DESCRIPTION:
 GATCATATAA CATTCCAGGT ACTCAGGATG AATGGTTTGA GGACTGGTCT GAATTCTTCA 60
 AAGGTTTCAG CTGTATTAAAC ATTCTCCATC TAATAAACTT TATCTTGTC TGTAAA 116

SEQ ID NO:6996
 SEQUENCE LENGTH:33
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08232
 SEQUENCE DESCRIPTION:
 GATCAGCAAA TAAATGAAAT TTATTAAG AAA 33

SEQ ID NO:6997
 SEQUENCE LENGTH:246
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08233
 SEQUENCE DESCRIPTION:
 GATCTTTAGG CAGTTTTTAC TTGGCCAGAA AGCAGTGCTG AATACTTGNA ACTGTGTGCT 60
 CTGTTCTACT TAATGTTCTG TCAGAATGTT CTTTGTAGG CAGTATGTCA TGTGTAAATC 120
 ATCTATCTCC TNGTCTGTTT CCAAGTTNNN CTGTGAAGTC TGCGACCCTT TTGNGGTGGT 180
 CATCANAGTC ACAGATTCCT TGTTTAACCA NGTGTCCNA AGCATGTACC TGNAGTTATA 240
 TCATNN 246

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SEQ ID NO:6998
 SEQUENCE LENGTH:186
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08234
 SEQUENCE DESCRIPTION:
 GATCATTATG CAATAAAGCT GCTAAAGTCA CATTGTGGT TGATACTCAA GCCTTGTACA 60
 AGCACATATC ATGTAGACAT TTTTAAATGT GAAGCTTTAA CAGGNATAGG ATAGCTGTTT 120
 CAAACCTTGT GCAATTGTAA ATAANTTGT TAGCTGTGTT TCTTTCATTT TTAATANAAA 180
 NTTAAA 186

SEQ ID NO:6999
 SEQUENCE LENGTH:154
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08235
 SEQUENCE DESCRIPTION:
 GATCTTCATA TTAATCTTAA AATTTTGTA CGTGCTTTT TCCTTTTTT CCACAGTTT 60
 AATATATNAT TCTTCAACGA CATTITTTGT AACTTTACAC TTTTGTGGT ATNTTATTT 120
 AAAAAATGA AAAATTAATT TAAAAAATG CAAA 154

SEQ ID NO:7000
 SEQUENCE LENGTH:195
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08236
 SEQUENCE DESCRIPTION:
 GATCTGGTAC GNGGNGGACG NCATGGCCCG AGATGCCAC GGAACACAG CGGTGACCTA 60
 CGCCCGNCAG GCCTCCAGCC AGGAGTGCAT CAACGTGCTT CTGCAGTACG GCTGCCCCGA 120
 CGAGTGCCTG TAGTATCTGT TTTATTTNNC TGNAGTCTCC TTGGTGTAAG AACAAAATNG 180
 GNAAAATAAG GATAN 195

SEQ ID NO:7001
 SEQUENCE LENGTH:163
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08237
 SEQUENCE DESCRIPTION:
 GATCAGGCCC TAAACGTTG TTGTGATGAG GTTCTTTAG CAAGTCTTG TTAAATTAT 60
 CATTATTTG ATGAGTGAAG TTTTAAACAT GCTTTGCTGT GTGAAATTA AAAAAGGGAT 120
 GTTTTCCAG GCTGGAACAA TAAATGTGGC TGTGCAGTTT AAA 163

SEQ ID NO:7002
 SEQUENCE LENGTH:127
 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear
 CLONE:HUMGS08238
 SEQUENCE DESCRIPTION:
 5 GATCTTTGTG AAAGTAGTAC AGTATATNAC CTTTAATTNC TTTTTTATTT TAAATATACT 60
 GTNACCNTGA AGCACTGGTT GGGCATTITA ATTCAATGTTA ATAAATCACA ATTATGTCAG 120
 TTTTAAA 127

10 SEQ ID NO:7003
 SEQUENCE LENGTH:123
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08239
 15 SEQUENCE DESCRIPTION:
 GATCAGCCTC CTGTCTTATG TGGGCACGTT CCAAAGTTTA AATGCATTTT TTTGACTCTT 60
 GGCCAAAATT TAGAAGATGC TGTGAATATC ATTTTGAAC TGTGTAAATA CATGAAAGAG 120
 AAA 123

20 SEQ ID NO:7004
 SEQUENCE LENGTH:260
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 25 CLONE:HUMGS08240
 SEQUENCE DESCRIPTION:
 GATCTCAGCA TTACCTCTTT GGNAAAGGAA GGTAGTTCAG GAAATGAAGA GCTGTTGATG 60
 GGATGATTGA AGAAACAGCT ATGAGAGGAT TGGCTCCCAT CTTTGTGNAC TCTGGGNCA 120
 TCCTGTGATC TGAGAATGAA CAAAGACCAA TTTTGTGT GTGAAGCTTA AGGGTCATAT 180
 30 GTTGCTTGT NTTTNTAAT GCTAATCCTT GTGAAANTAA ATTGNCCAGG CGGAAGGAAA 240
 NCTCTATTTT AGGATNCAAA 260

35 SEQ ID NO:7005
 SEQUENCE LENGTH:79
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08241
 SEQUENCE DESCRIPTION:
 40 GATCTGTATT TNTATATACA CGTGTCCGNA CAAGTATAAC TAAATAAAAA TTAAAGNTTT 60
 TAATCATTTT AATTGGAAA 79

45 SEQ ID NO:7006
 SEQUENCE LENGTH:59
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08242
 SEQUENCE DESCRIPTION:
 50 GATCATATTT CTGCCAAGNA TGTGCCTTCA ACTTTATAAT TATAGTGTG TAAAATAAA 59

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5 SEQ ID NO:7007
 SEQUENCE LENGTH:67
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08243
 SEQUENCE DESCRIPTION:
 GATCTCACTT TTNCTTATTA GAATTGTAC CTTTGTGTTGA TTAAGGAAAT AAAAGATGAA 60
 TGACAAA 67

10
 15 SEQ ID NO:7008 .
 SEQUENCE LENGTH:76
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08244
 SEQUENCE DESCRIPTION:
 GATCAGTCTC TCAGTGCCTN CCTACTGGGC AGCTCATCTG TCCACTTATT CGTATTAAAT 60
 TTNCTTTTTA TTAAAA 76

20
 25 SEQ ID NO:7009
 SEQUENCE LENGTH:162
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08245
 SEQUENCE DESCRIPTION:
 GATCCACATC CCANATGCTG AACCAGAGAG CCCCTCATCC CTCCTCCCAG TACTTAGGCA 60
 GCGCCTTCTG TGTGCACTGC CTCITGCCGG GCACTGGGTA GGTGCACACG NGGACCGGGA 120
 30 CAGGGCCAGA NACTTTGGTN CCCGNGGTTT GTNTGNGGGG NN 162

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 40 SEQ ID NO:7010
 SEQUENCE LENGTH:58
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08246
 SEQUENCE DESCRIPTION:
 GATCGATTAA GTCTAGGAGT TTNAGACTTG CCTGGGCTTA GCAAGACCCT GTGGCAAA 58

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 55 SEQ ID NO:7011
 SEQUENCE LENGTH:275
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08247
 SEQUENCE DESCRIPTION:
 GATCCTTGAG TCTCCNCTCT GGATGGAATC CGCGAGCTGG CCACCTGGCC ACCCTCTACA 60
 CGACTCCACC CNCCATGGC CGTGGGGCCC TTA CTCTCTG ACTTCTCAGG ACACAGGTCA 120

EP 0 679 716 A1

TGGAGGTTCT TCCCAAGCTG GCAGAGGCCA TTTGTGAAA GTGGAGAGCT ACGTGGTGGN 180
CATCTGCCAA CTCCAGCATC TCTGGNGGGG NTCCACGNTG AATGTNATTT TTGAAAACAG 240
CTTATGTANT TAAAGGTTGA ATGGCACATC ATAAA 275

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SEQ ID NO:7012
SEQUENCE LENGTH:124
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS08248
SEQUENCE DESCRIPTION:
GATCAAGACC ACCCTGGCTA ACACGGTGAA ACCCTGTCTC TACTAAAAAT AAAAAAANTT 60
AGCCGGGCAT GGTGGCACAC GCCTGTACAT CCCAGCTACT CANGGNGGCT NGTGGCATGG 120
NGNN 124

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SEQ ID NO:7013
SEQUENCE LENGTH:215
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS08249
SEQUENCE DESCRIPTION:
GATCANGAGC CCTTTNCTC CAGTAGTACA GGCTTTGAAA ACTACTTCTA TTAAGTTATT 60
GATGCAATTT GATATTTTT CATAATCTAT ATTTAAACAA AATTACATCA TTGCATCATC 120
TTTTCTAAAT TCATCTCCAT TAAAACTTGC CTTAAGCTAC CAGNTTGCTT TTGCCANNGN 180
NGGCCATACT GTGTGTTTGT TTGTTAATN NNCTN 215

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SEQ ID NO:7014
SEQUENCE LENGTH:373
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08250

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SEQUENCE DESCRIPTION:
GATCTCTCAG GGATAGAAGA TATTTCTCAT GAAGGCAGCC TAACTCTGAG GAAAACAATG 60
CCAATTCAAG TACAGATTTT AACACATCTT CAACACTATG TGAAGGGTTC ACATCTTAAC 120
CTGTGCAATT CAGATTGATA CTCAGAATAT GGGTTGATTT GAATATCTGA AATATCAATG 180
GAAAATCCCA CTNNGTTTTT GATGAACAGT TTGAACAGTT TTCTGTAATC AAGCAGCTTG 240
CATAGAAATT GTATGATGAA ATTTTNCGNN GGTTCCTGGT GCTGTTTTGT TCTTTTTTTG 300
TTTTTTGTG TTTTGTATT TACTTATATA CATATAANCT TTTNTTGAAA ATATGTTTTG 360
GTTACTAANA GTN 373

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SEQ ID NO:7015
SEQUENCE LENGTH:219
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08251

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SEQUENCE DESCRIPTION:

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EP 0 679 716 A1

5 GATCCCAACC TGGACCCACT CATGAACCCT CACATCCGCG TGGCCCCCTC CTNAGCCCCN 60
 TTGCTTGTGG CTAGGCCAGC CTAGGATGTG GNTTCTGTGG AGGAGAGGCG GGGTAATGGG 120
 GAGGCTGAGG GCACCTNTNC ACTGCCCCCTC TNCNTCAAGC CTAAGNCACT AAGACCCAG 180
 ACCNAAAGCC AAGTCCACCA GAGTGGCTGC AGGNCAGGN 219

10 SEQ ID NO:7016
 SEQUENCE LENGTH:91
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08252
 SEQUENCE DESCRIPTION:
 15 GATCGTTGA ACCCATAAGC TGGAGACCAG CCTGTGCACA TGGTGAGACC CTGTCCTAC 60
 CAAAAAAT AAAGTCATTA GAGTTTTTAA A 91

20 SEQ ID NO:7017
 SEQUENCE LENGTH:176
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08253
 SEQUENCE DESCRIPTION:
 25 GATCTGATGG TTTTATAAGG GGCTTCCCCC TTCACTCAGC TCTCATNTT CTCTCTCTG 60
 CCACCATGTA AAGAAGGATG TGTTTGGTTT CCCTTCCATC ACGATTGTAA GTTTCCTGAG 120
 GCCTCCTAAG CCATGTGGAA CTGTGAGTCA NTTAAATCTC TTTACTNTAT NNNGNN 176

30 SEQ ID NO:7018
 SEQUENCE LENGTH:174
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08254
 SEQUENCE DESCRIPTION:
 35 GATCATCACT TACCCACCCC CCAAGTTCAA GACCAAATCT TCCAGTGCC CNNTTCGTGT 60
 TTCCCTGTGT TTGCTGTAGC TGGGCATGTC TCCAGGAACC AAGAAGCCCT CAGCCTGGTG 120
 TAGTCTCCCT GACCCTTNTN AATTCCTTAA GTCTAAAGAT GATGAACTTC TAAA 174

40 SEQ ID NO:7019
 SEQUENCE LENGTH:45
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08255
 45 SEQUENCE DESCRIPTION:
 GATCCTCCCT TTCCTATAGN GNTAAAAGTG ATTTATCTTG GCAAA 45

50 SEQ ID NO:7020
 SEQUENCE LENGTH:109
 SEQUENCE TYPE:nucleic acid

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5 TOPOLOGY:linear
 CLONE:HUMGS08256
 SEQUENCE DESCRIPTION:
 GATCATGTGA TGTGGAGTA GGAGGGTTTA TTTGGTGAC TTTGGGATGC TGGTTTCATT 60
 GTAGGTATAA TNATGNGGNG CAAAGAATCC AGGNAAGAAT TGCCAGAGN 109

10 SEQ ID NO:7021
 SEQUENCE LENGTH:225
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08257
 SEQUENCE DESCRIPTION:
 15 GATCCCACTG AGGCCAGAGA ATAGGGTCTG GAGACAAAGG AGCATTCACT TCAGCCTCTG 60
 ACTGGTGGCA GGCCAAGTNT TTATTACAT AGGGTGTAAC CAAATAGGAA ACCTCTAAAG 120
 GGTACTTAAA CCCCAGATT TTTACACAGG GCACTTGCTT GAGCCTCATC CCGCTTCTG 180
 GAATGTACTT TTGCTTCAAT AAATCTGTGC TTTTGTTCCT TCAAA 225

20 SEQ ID NO:7022
 SEQUENCE LENGTH:196
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 25 CLONE:HUMGS08258
 SEQUENCE DESCRIPTION:
 GATCTGGAGG GCGTGGCTAC AGGACCCGGG ATGCCATTCA GTTACTCATC TTTNATGCTT 60
 TCGTCCTGAC CTGTCTCAAC TAGACTTGCT CCTGCAACCA CCATGGGGGT TTTGCATTTA 120
 30 CATTTGTGGA CCATGTTACA GTTAAGAAAA ATCCTGTTTC AGTCCTTATA TGTAATAAAA 180
 TGTTTTATGA TGTAAA 196

35 SEQ ID NO:7023
 SEQUENCE LENGTH:170
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08259
 SEQUENCE DESCRIPTION:
 40 GATCTNTCCT CCGCTTGAGA AGACCATGGA ACTGGATAGC TCACTTCCGG AATACAACAT 60
 GTTTCCCCGC AAAGGCCGGG GNCTCCCTAG NTCAAATTC CAATCTCATN AGCAGGTGNT 120
 AGAAAGGTNT TGTGGTAGCA ACTNCATGAT TTCTCTGTGA CCAAAATNAN 170

45 SEQ ID NO:7024
 SEQUENCE LENGTH:84
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08260
 50 SEQUENCE DESCRIPTION:
 GATCAAATGT AAATNTTTT AGGATATTTT NCTTGTTTTT NAAAAATCAAT TTTTAACCAA 60

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ATATTAAACC CTTTATTGTC CAAA

84

SEQ ID NO:7025

SEQUENCE LENGTH:246

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08261

SEQUENCE DESCRIPTION:

GATCCACCAC TGGNCTCTCC CTCCCCCAGC CTGGAGCACG GGAGGGGAGG TGACGGCTGG 60
 TGA CTGATGG ATGGGTAGTG GGCTGAGAAG AGGGGACTAG GAAGGGCTAT TCCAGGCTCA 120
 GCCCTGTAC TGCAGCTTTG CCGCTGAGTG TAGGAAAAAC AGGCATGACA GACCAGGGTG 180
 AGGGTTGTGC CCAGCTGGGC CACGGCCATG CGTGGGGTGG CCCAATAAAC ACCGTGGACT 240
 CCCAAA 246

SEQ ID NO:7026

SEQUENCE LENGTH:45

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08262

SEQUENCE DESCRIPTION:

GATCAGTCTT TATNAATAAA ACCTGTTCTC TTTAATCAGC TTAAA

45

SEQ ID NO:7027

SEQUENCE LENGTH:186

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08263

SEQUENCE DESCRIPTION:

GATCAGACTG NTAACCTTAA CACCATAGGT GCAAAAANGAG TTGTTCTNAG GTTTTTTTGA 60
 AACATTAAAG TTCCAAAACA TGACATTTTT AAGAATAAAT TTGAAATAGN GTATGATTGA 120
 ATGCAGAGNA TTATGTACCT CTAATTGCTT AATTTTGTAG NGGTCTTTNA TTGTAGAATT 180
 GGNNCN 186

SEQ ID NO:7028

SEQUENCE LENGTH:271

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08264

SEQUENCE DESCRIPTION:

GATCTCTTGG TAACAATTGA CATTGCACTA GNATTTGAAT GNTACTGTTG TTGGCATTTC 60
 TGTANTCTT TCAAGTAGTT GTAAATAATC TCITTTTCTC ATATAAACGG AATGCATAAT 120
 GTCTTACTCT TGAGTCATTT AGTAGCATTG ATATGGTACC AAGTTGTATA GCAGTGTAAAC 180
 AAAATCATGC TTTGACAATG NAATTTACAT ATTGCCTCAC CTAGAGATGT TTTGTCTGTA 240
 TGACTNNTNN CNTTNTAAAG TTNGNCNAAC N 271

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5 SEQ ID NO:7029
SEQUENCE LENGTH:301
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08265
SEQUENCE DESCRIPTION:
10 GATCAATCA GGGTAATTGG GTATCCATCA CCTCAAACAT TTACCAITTC TTTGTGTTGG 60
GAACATTCCA TATCTTTTT TCTAGCTGTT CTGAAATTG CTATACGTTT TTTAACTAA 120
AGGTCCCTTG CTGTGTTATG GAACACTGGA ATTTGTTCTT TCTGTTTAA TGTATTTTGG 180
TACCTATTAA CCAACTTCTC TTTATCTCTC CCCGTCCTCT ACCCTTCCCC AGCCTGTGGG 240
AATCACCCAT NCTACTCTCT GCCTTTATGA GATTACTTN TTNATCTCC CNATATAANA 300
N 301

20 SEQ ID NO:7030
SEQUENCE LENGTH:117
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08266
SEQUENCE DESCRIPTION:
GATCGTAGAA ACACAGAAATG GGACTGGGGA AGCCCTTTGG AAATCCAGCT GCAGAAACAG 60
ACACCCCAAT GCTATTTACA TACAGCTCTA TATATATAAA AAAAGNAAAT ATGNAAA 117

30 SEQ ID NO:7031
SEQUENCE LENGTH:297
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08267
SEQUENCE DESCRIPTION:
GATCTCACCA GGGCCCAGTC ATATATGCAC AGTTAGACCA CTCCGGCGGA CATCACAGTG 60
ACAAGATTAA CAAGTCAGAG TCTGTGGTGT ATGCGGATAT CCGAAAGANT TAAGNGAATA 120
35 CCTAGAACAT ATCCTCAGCA AGAAACAAAA CCAAAGTGA CTCTCGTGCA GAAAATGTAG 180
CCCNTTACCA CATGTAGCCT TGGNGACCCA GGCAAGGACA AGTACACGTG TACTCACAGA 240
GGGAGNGNAA GNTGTGTACA AAGGNTATGT ATAANTNTTC TTTTAGTCA TCCTATN 297

40 SEQ ID NO:7032
SEQUENCE LENGTH:58
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08268
45 SEQUENCE DESCRIPTION:
GATCCTGGGG ACTCATATTC TTTCAGAATC ATGTAAATAA ATGGCATCAT GTTGTAAT 58

50 SEQ ID NO:7033
SEQUENCE LENGTH:103
SEQUENCE TYPE:nucleic acid

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EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS08269

SEQUENCE DESCRIPTION:

5 GATCTATTTG GCCTCTCAAA TNAACTNAGA TTCCTGTAA AAAAGATTGA TGTTATTGTC 60
TCTTGTAGAG GAAACTAATA AAGTGTGTGT ACCTNTGTGN AAA 103

SEQ ID NO:7034

SEQUENCE LENGTH:265

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08270

SEQUENCE DESCRIPTION:

15 GATCAAGAGT NATGGGCCTT GGAGCCCTTG CCAGCCAGC CCACCTGTNA GGAGGCTGCC 60
CATCCCCTCT TTNAGGCCAC CCTGTGTCCT CTCCCCTGCC TCTGCCAGA GCTCCAGCCG 120
GAGTGTCTTG CTGCTCAGAC CCCTCCGAGG TCCAAGTCCT GTCCTGCCAC TCAGCTCCCN 180
CTGCACCCCA GAAGAAACGC AGGGTGCGGT TGCATTGAT TTCAGATAAA CAACAACCTC 240
TTAGTAAAT NACCTNCCA CTAAT 265

SEQ ID NO:7035

SEQUENCE LENGTH:46

SEQUENCE TYPE:nucleic acid

25 TOPOLOGY:linear

CLONE:HUMGS08271

SEQUENCE DESCRIPTION:

GATCAATCTT GANGTGAAAT ATTTCCAAAA TAAAATTCTA CAGAAA 46

SEQ ID NO:7036

SEQUENCE LENGTH:254

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35 CLONE:HUMGS08272

SEQUENCE DESCRIPTION:

GATCTTTGCA TAGAATGTCA AGCTAACCAG GCGTCCGNTA CTTCAGAAGA GTGTACTGTC 60
GCATGGGGAG TCTGTAACCA TGCTTTTAC TTCCACTGCA TCTCTCGCTG GGTCAAAACA 120
CGACAGGTGT GTCCATTGGA CACAGAGAG TGGGAATTCC AAAAGTATGG GCACTAGGAA 180
40 AAGNCTTCTT CCATCAGGNG TTAATTGTTT TGTTATTCAT TTAATGGCTT TCCCTGCTGT 240
TACCTAATTA CATN 254

SEQ ID NO:7037

SEQUENCE LENGTH:222

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08273

SEQUENCE DESCRIPTION:

50 GATCATTGAG AAAGTGTGTTG AAACCTTCTC ATGAAGTGTA TATATAATGG CGTGAAAAAT 60

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TCCTTTGGAA AAATNTATGT NCCTTTCATT TTGCCCAAAT TGCAAATTTT CAGCATGGNT 120
 GTGAAAAGCA TTAATAATTAT AACTTTGTGT ACANGATGAA AATAATTCAC TAAATTTGCC 180
 CTTTTTTACA CAAAATAAAA TGTTAANGTT ANNGCTGGNA AA 222

5

SEQ ID NO:7038
 SEQUENCE LENGTH:32
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08274
 SEQUENCE DESCRIPTION:
 GATCAAATGA CANTAAATCA TTCAAAATCA AA 32

10

SEQ ID NO:7039
 SEQUENCE LENGTH:109
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08275
 SEQUENCE DESCRIPTION:
 GATCACCCAG GTACANCATG CTCTATATCC ATGCGGCCCT AGAAACCCAA GGAACATATA 60
 CAACCACTCT TGTGTCCCTC CTTATAACCN CAGNTTTATN CNAGAAGTN 109

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SEQ ID NO:7040
 SEQUENCE LENGTH:301
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08276
 SEQUENCE DESCRIPTION:
 GATCACAAAT TGGTGCATTC TTAAGTGTGG ATAATTATGT ATGAAGCCAA ATTGTAATAA 60
 AACTGTTATT TGCCAAACAT AGAANCCTTG CTCGTGACT AGGCTGAGCC CAGAGTGTTA 120
 TTCTCTTCTT CTGCCTGTNA TGTATCTGGG CAATTTGTAG GGCCTTTGCA GGTGAATCCA 180
 GTAGAGAACC ATGCTAAGAN TGNGCAGCAG TCATGCATGC CTGTATCATT GAAAGCCTTC 240
 CTNGCCATTT TNACAGCTTC ACCTTNCGTG GTTTTTATTT TTTCCAGAGG GGGCCTGGGG 300
 N 301

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SEQ ID NO:7041
 SEQUENCE LENGTH:151
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08277
 SEQUENCE DESCRIPTION:
 GATCCTCCTC CCTAAGCGCT TATCTTGGTG CTTCCAGCTC AGTCTGGCCA ATTCCACCTC 60
 TATGAGATAA GGAGGGTTCA GAGAAGCCAG TCACTTTGCT GTTTTCTGTC NCACAGAGTT 120
 TCTCTAATAA ATCTTATTCT ATGTCTACAA A 151

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SEQ ID NO:7042

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SEQUENCE LENGTH:138
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08278
 SEQUENCE DESCRIPTION:
 GATCACATTG TTTGACCCAG TATGTCTTGT AGACACGTTA GTTATAATCA CCTTGTATCT 60
 CTAATATGG TGTGATATGA ACCAGTCCAT TCACATTGGA AAAACTGATG GTTTTAAATA 120
 ANCTAATTCA CTAATAAA 138

SEQ ID NO:7043
 SEQUENCE LENGTH:300
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08279
 SEQUENCE DESCRIPTION:
 GATCTGTCAA CAGGTAAAGT CAATCTGGGG CTTCCTGTC CTGCATTCCA GTCCCCAGAG 60
 CTTGGTGGTC CCGAAACGGG AAGTNCATAT TGGGGCATGG TGGCCTCCGT GAGCAAATNG 120
 TGTCTTGGGC AATCTNAGGC CAGGNCAGAT GTTGCCCCAC CCACTGGAGA TGGTGCTGAG 180
 GGAGTGGGT GGGGCCTTCT GGGAAAGGTGA GTGGAGAGGG GCACCTGCCC CCCGCCCTCC 240
 CCATCCCCTA CTCCCCTGN TCAGCGCGGG NCATTANAAG GGTGCCANAN ATTTTTTTNN 300

SEQ ID NO:7044
 SEQUENCE LENGTH:90
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08280
 SEQUENCE DESCRIPTION:
 GATCTCATTC CATGGGAAAA AAAAAAATCC TGTCTTGTTT ATAAATTGAC AATGTCACTA 60
 AATAGAAATA AAGTGACAN TAAATGNAAA 90

SEQ ID NO:7045
 SEQUENCE LENGTH:175
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08281
 SEQUENCE DESCRIPTION:
 GATCTNAGTT AGACATCACC ANTGGAAATC GATTGGAATA GAACTTAAA GGAAATGGAA 60
 CCCTGACTAT TCTCCCATCA AATCATATAT GTTGACCTGT CTGAATTATA AACCAGCCTG 120
 ACCTTTCCTT TAGCATTAGA TGTAATAAAA TAACTTTGGA AATTTGTNAT TTAAA 175

SEQ ID NO:7046
 SEQUENCE LENGTH:190
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08282

EP 0 679 716 A1

SEQUENCE DESCRIPTION:

5 GATCCTCAGG ACTGACCACT TAGCTGGCAG GTTGTNCAGC TTTTAATTCC AGTCATAATA 60
GGTGACAGTG TTAACCGTGA AANTTTGNGA GGCACNTTTG NCCTCTTCCC TATAAAAATC 120
ACACAAGCGT GNTTTTACAA AGGGTCCCCG TGGGAACCTT NGCTTAAGGA CCCTTTGNCC 180
CNTCAGTTAN 190

SEQ ID NO:7047

10 SEQUENCE LENGTH:147
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08283

SEQUENCE DESCRIPTION:

15 GATCCTCAGG ACTGACCANT TAAGCTGGCA GGTGTGCCA GCTTTTAAAT CCCAGTCATA 60
ATAAGGTGAC CAGTTTAAAC CCGTGNAAC TTNGAGGGGA CTTTTCCTT TTCCCTATNA 120
AATNACACNG GGGGGTTTAA NAAGGTN 147

SEQ ID NO:7048

20 SEQUENCE LENGTH:223
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08284

SEQUENCE DESCRIPTION:

25 GATCCATCTG CCCTCATAAA AGTGTTCCAGG TACAGCAGCT GAGGCTGCCC TGAGNAATCA 60
AGGGGCCATT ACCAAGGGGC AGGAAAAGNA TATGTAAGAG GTGGCCTTCA TGGTAGAGCT 120
TGACCCAAGA ACTACTCCAN ATTCGGATGG CCCAGACTGG GNGCATCCCC TGACTTTCCC 180
TTTGACTTCA CCCTGTTTGT AAATAAANCA AGGNAGATGC AAA 223

SEQ ID NO:7049

35 SEQUENCE LENGTH:56
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08285

SEQUENCE DESCRIPTION:

GATCTCCTCC CTNGTTTAAA TGCAATAAA TGCCCCAACT GCTTTGTAAG TGCAAA 56

SEQ ID NO:7050

40 SEQUENCE LENGTH:107
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08286

SEQUENCE DESCRIPTION:

45 GATCACCTTA AAATTATTTN ACGNACTGNA GNCAATNAAG TCCGTTATGT TTAGAGTAGA 60
AAATGTTTAG GTTAAAGAGC ATCTGTCAAC AGAATCTACA AAAAAGN 107

50 SEQ ID NO:7051

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EP 0 679 716 A1

SEQUENCE LENGTH:125
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
5 CLONE:HUMGS08287
SEQUENCE DESCRIPTION:
GATCCAATTN CATNNGCGGC TGCATCTNCT GTCATGCCG CCCAAACACC ACCCAGATGT 60
CACTTACGTC AAGAAGGTCC GGACCCTCCG TATGCACCTG TTCACGGCCC TGCAGCTGCT 120
10 NTGNN 125

SEQ ID NO:7052
SEQUENCE LENGTH:276
SEQUENCE TYPE:nucleic acid
15 TOPOLOGY:linear
CLONE:HUMGS08288
SEQUENCE DESCRIPTION:
GATCCAAGAA ACGNANGACA CAACAACAAC GATGCCGTGT GTCTGCTCTA CCTGGGCAAG 60
CTCAAGNACT CCCTGCGGCA GCTNGAGGCC ATGGTCCAGC AGGACCCAG GCACTACCTG 120
20 CACGAGAGCG TGCTCTTCAA CCGTACCACC ATGTACGAGC TGGAGTCCTC ACGGNGCATG 180
CAGAAGAAAC AGGCCCTGCT GGNGGCTGTC GNCGGCAAGG NGGGGGCCAG CTTTAACACA 240
CAGTGCCTCA AGCTGGCCTA GCTGNNTNNN ACACAN 276

25 SEQ ID NO:7053
SEQUENCE LENGTH:209
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08289
30 SEQUENCE DESCRIPTION:
GATCGAGTTT ACAGTTGTGN NNTCTTGAAG GTATTACTTA ACTTCACTAC AGCTTGTCTA 60
GAAGACCTTT CTAGGNGTTA TCTGGTTCTA GAAGGGTCTA TACTTGTCTT TGTCTTTAAG 120
CTATTTGACA ACTCTACGNG TTGTAGNAAA CTGCTAATAA TACAAATNCT TGTGTGCCAT 180
35 GGNAAGGCAA ATAAATTNC TACAGTGNN 209

SEQ ID NO:7054
SEQUENCE LENGTH:126
SEQUENCE TYPE:nucleic acid
40 TOPOLOGY:linear
CLONE:HUMGS08290
SEQUENCE DESCRIPTION:
GATCTCATTT TCAGTTTAAG TAACTGCTGT TACTTAAGTG ATTACACTTT TGCTCAAATT 60
45 GAAGCTTAAT GGAATTATNG CCCTCAGGAT AGTATTTTGT AAATAAAGNT GATTAAATA 120
TGNAAA 126

SEQ ID NO:7055
SEQUENCE LENGTH:276
50 SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear
 CLONE:HUMGS08291
 SEQUENCE DESCRIPTION:
 5 GATCGCACCA TTGCACTCCC ACCTGGGCAA CAAAGAGTGA AACTTGGTCT CAGAAACGAA 60
 ACAAACACA AAAACCTTTC TNAGTCCCAG CATATGTGGA GCAGCCTCAT TCTTCATAGC 120
 TGTGTGTCAT TCCGTTGCGT GATGGGGTCA CAGAGCACAG ACCTGGTGCC CTTTTCCTTT 180
 TTAATATGTG GAAACCCCTC CATGCTTTCC AAAGCCTACA AGTACAGCAG CCCCNAGTTT 240
 10 AGGGTGNGCA GCAGTGGTCA GAGCTCTTNN CTANTN 276

SEQ ID NO:7056
 SEQUENCE LENGTH:276
 SEQUENCE TYPE:nucleic acid
 15 TOPOLOGY:linear
 CLONE:HUMGS08292
 SEQUENCE DESCRIPTION:
 GATCTCCAGG AGTCCCCTGC ACATACCTTC TCCATCGTGT CAGCTGTGTT TCTCTTGATT 60
 CCGTGACACC CGGTTTATTA GTTCAAAAGT GTGACACCTT TCTGGGGCAA GGAACAGCCC 120
 20 CTTTAAGGAG CAAATCACTT CTGNNNNAGT TATTATGGTA ATATGAGGCA ATCTGATTAG 180
 CTTACAGAC TGAGTCTCCA CAACACCAAA ATATCCAGAT GTAAACCCCA AACTTGTACA 240
 CAAANGNAAG CACAGATTGT TTACCTGTTG TGGAGN 276

25 SEQ ID NO:7057
 SEQUENCE LENGTH:167
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08293
 30 SEQUENCE DESCRIPTION:
 GATCCCTGTT ACCCAGAGAA TANNTACATT CTTTATCTTG ACATTCAAGG CATTTCATC 60
 ACATATTGTA TAGTTGGTGT TCAAAAAAAC ACTAGTTTGG TGCCAGCCGT GATGCTCAGG 120
 CTTGAAATGC ATTATTNNGA ATGTGAAGTA AATACTGTAC CTTTAAA 167

35 SEQ ID NO:7058
 SEQUENCE LENGTH:69
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 40 CLONE:HUMGS08294
 SEQUENCE DESCRIPTION:
 GATCACATAC CCTTCTTTTA AGTGAATTTT TTTCATTGTA TTTGTCAATA AACGAATCAA 60
 ACTGGNAAA 69

45 SEQ ID NO:7059
 SEQUENCE LENGTH:222
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 50 CLONE:HUMGS08295

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EP 0 679 716 A1

SEQUENCE DESCRIPTION:

5 GATCTCCCTG CCTGGGCTGG CTGTGAGGCC ACCTTTGTCC CAGGCCCAGC CTCAAGGCAA 60
GGAGGGCGCT TCACTGAGGT GTGAATTGTA CGTACAGGCT TTTATATAC CAAAAGTATT 120
TTTTGACTAG ACCATTCAAA GCTACCCGAA CTATGTTGGA AATTTTTTTT TTCTCATTAA 180
AATACAGGCC CTTAGGCTCT ATTTTAAATG TATNAGTCGC AN 222

SEQ ID NO:7060

SEQUENCE LENGTH:145

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08296

SEQUENCE DESCRIPTION:

15 GATCAAAATA CCTGTTTATA TATCTGTTAT TTAAAGAAAA ATTTCCACA GTGTTTGTGTT 60
ATTTCCAGC GTTCTTAGN ACATTTGGGN ATTNCACTAA AATATAGCTG GGTGGATTGA 120
AGTAAAGGGC AANTGCGTTT GCAAA 145

SEQ ID NO:7061

20 SEQUENCE LENGTH:20

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08297

SEQUENCE DESCRIPTION:

25 GATCTTCCAA AACACACAAA 20

SEQ ID NO:7062

SEQUENCE LENGTH:227

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08298

SEQUENCE DESCRIPTION:

35 GATCAATCAA GAATAATTTT AATTTTCTTT TGTATTTGAA ATGTAAATAG TTTTCTTTTC 60
GATTAACAAA ATTTCTTATA ACTGCTAAAC AGTTAAANNC TTAAAGTAG TAAATGAGTT 120
TATAGAAAGC ATGTATTCTT GATTTTNGTG CCTTGGTAAA GTTGATAACT ATTTATGAAT 180
ATTTGACCAA ATTATTCCAG CATCAGAATA ATAAGCAAAA TAACCN 227

SEQ ID NO:7063

SEQUENCE LENGTH:209

40 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08299

SEQUENCE DESCRIPTION:

45 GATCACACCA CTGCATGCCA GCCTGGGCGA CAGAGTGAGA CCCTGTCTCA GAAAAGAAAA 60
AAAAAGTAAA AATTGCATGT AAGTTGACCC GCACTATTCA AATTTGTGGT GTTCAAGGTT 120
CAACTGTAAT TTCCTAGCAG CATTTTGTGT GTTTGAGAAT CTCTTGACAC TCTTCAAGTA 180
AATCCCTAAA TTACAACTTT GACATCAAA 209

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SEQ ID NO:7064
 SEQUENCE LENGTH:130
 SEQUENCE TYPE:nucleic acid
 5 TOPOLOGY:linear
 CLONE:HUMGS08300
 SEQUENCE DESCRIPTION:
 GATCGACTGA GCTCAAATTT CAGTTGGGGC CCTATTAGTC TGCCTTTCCA AAAAGGGCGT 60
 10 TGGGACTTTA ATTTAAAACT TAACCAGTTG AAAAATAAAG GTGGCGTGGA AATGCTTTTT 120
 GATTTGCAAA 130

SEQ ID NO:7065
 SEQUENCE LENGTH:223
 15 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08301
 SEQUENCE DESCRIPTION:
 GATCTGGGCT TTAAAGCAGA GGCCATGTCC TTGTCTGGTC CTGCTTNTGG CTACAGCCAC 60
 20 CCTGGAACGG AGAAGGCAGC TGACGGGGAT TGCCTTCCTC AGCCGCAGCA GCACCTGGGG 120
 CTCCAGCTGC TGGAACTCTA CCATCCCAGG AGGCAGGNAC AGCCAGGNNG AGGGGAGGAG 180
 TGGGCAGTGA AGATGAAGCC CCATGCTCAG TCCCCTCCNA TNN 223

25 SEQ ID NO:7066
 SEQUENCE LENGTH:260
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08302
 30 SEQUENCE DESCRIPTION:
 GATCGGAGAC ATCCTGCTGT TCGGNACGTT GCTGATGAAT GCCGNGGCGG TGCTGAACTT 60
 TAAGCTGAAA AAGAAGGACA CGCAGGGCTT TGGGGAGGAG TCCAGGGAGC CCAGCACAGG 120
 TGACAAATC CGGGAATTCT TGCTGAGCCT CAGATACTTT CGAATCTTCA TCGCCCTGTG 180
 35 GNACATCTTC ATGATGTTCT NCATGATTGT NCTGTTCCGGC TCTTGAATCC CAGCGATGAA 240
 ACCAGGAACT CACTTTCCAN 260

SEQ ID NO:7067
 SEQUENCE LENGTH:154
 40 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08303
 SEQUENCE DESCRIPTION:
 GATCGAAAGA AGNACATCAT GAAAAATAAA TGAACTTTGC TTAGTGGATT GACTCCTTTG 60
 45 CTGAAGTCAG TTATTCATCA AGAATGCAAT TAGNCTAATT GTGAATAAAT GATTGNNTGA 120
 AGNTATAATA AATAAAACCG TAAACTCTGG CAAA 154

50 SEQ ID NO:7068
 55

SEQUENCE LENGTH:29
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08304
 SEQUENCE DESCRIPTION:
 GATCAATAAA ATGTGATTTT NCTGATAAA 29

SEQ ID NO:7069
 SEQUENCE LENGTH:74
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08305
 SEQUENCE DESCRIPTION:
 GATCGTCCCA TCACAGTGTT GTTAATGTTT GCTGTATTTA TTAATTNCT TAAAGTGAAA 60
 TCTGAAAAAT GAAA 74

SEQ ID NO:7070
 SEQUENCE LENGTH:264
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08306
 SEQUENCE DESCRIPTION:
 GATCTGGCTT CACAGACAGT TGACACATCT AAAAGAATCT TTGTTTCCAA CTGGACTGAC 60
 TCATTGAGAG GAAACCTTCA CTGCACCTCA CCAAGTGCAGA CAGAAGACCT GGAGGCAGGA 120
 CGGGAGGCAT TTTATACTTC AGCACGATAT GGGCCCTGAC TTTTCATTTT CTACATGGAG 180
 ACATATTGCT GGAGGCTCAT CATCCTGAGG GGAGAAACAT GGATTTCATG GTTTTGCCAT 240
 AAAAGTATGC AACAAAGAGT TCCN 264

SEQ ID NO:7071
 SEQUENCE LENGTH:27
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08307
 SEQUENCE DESCRIPTION:
 GATCANTAAA AAAAATAAAT AATTAAA 27

SEQ ID NO:7072
 SEQUENCE LENGTH:175
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08308
 SEQUENCE DESCRIPTION:
 GATCTNTTTT NTCTGGAGTC CTGGAGTTNC TTTCCTAAGG TTAAATATAA GCAAGCNCCA 60
 GAAAGAATGC TGACAGAAAA GGGACCCTAG CTGTGGTAGG AAGTGGCCCT CAGAGTCAAG 120
 GAGGCAGGAT GANTTTAAAT NCTNCATGTA GGGCATATTT TGGGGAGTNA TGGGN 175

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5 SEQ ID NO:7073
 SEQUENCE LENGTH:281
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08309
 SEQUENCE DESCRIPTION:
 GATCGACTTT AAGTTGCTTC GGGTCTAGTA GAAATCCGGT TATTTCCAAG CCTGTNAAAT 60
 10 GTGAAGTTCA AGAAAAATGA ATCCGTGTAT AGCAAAACCA TTTTNTCTCA CAATTTTTTA 120
 ACCAATGAAC ATTGTGTGGG AAATTNATTC CATATGTTTT CAAGTCATTT ATGCAACTTG 180
 AATAATTAAA ATATTCATTG GTAAGAGCTG CCTGATGTCT TTAAAGTCAG GAAATTGTCT 240
 TATGCCAAAA GTAGACAANC TCAAACACCA AAAGGTCANN N 281

15 SEQ ID NO:7074
 SEQUENCE LENGTH:106
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08310
 20 SEQUENCE DESCRIPTION:
 GATCATTTTT CTTGGAGGNT GGAGATTGGC TAGTACCTCT GGCCTAACTG TGTAGGTCAA 60
 TACTCTTTTA CATTGCCTTC TAATAAAAGC AGNATGATNC AGCAAA 106

25 SEQ ID NO:7075
 SEQUENCE LENGTH:69
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08311
 30 SEQUENCE DESCRIPTION:
 GATCTTGTGT CTGTTGTGCC TGAATTTGGC GTGTCTAATA AAGGCCCATG CACACTATAG 60
 GCACTCAAA 69

35 SEQ ID NO:7076
 SEQUENCE LENGTH:292
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08312
 40 SEQUENCE DESCRIPTION:
 GATCAGTGAA ATNTTAACT CCCACGGTAA CATCATGCCT ATGGACATTA AAGGAATAGC 60
 AAGGACTTGC TCCCACGACT TCACATTTGC TCCCCTGGC CAGGAATGTG GGCTCTTAGT 120
 GATTCCAGAT AAGGGCAAAG CTGGGGCCCA ATGTATGTAG CCAAATTGNA GNAATCATGG 180
 45 NGCACAGGCA AATGGTGACA TGAATTTGTA ANCTGTGTTT ATGTGTTNTT ATATTTATAT 240
 TTCTGANCTC AGTACATGTT AATATTTAAN TAATTATGCA GTAACTTTCA AA 292

50 SEQ ID NO:7077
 SEQUENCE LENGTH:29

55

SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08313
 SEQUENCE DESCRIPTION:
 GATCCTGCAC TCTAGCACAT GACTCCAAA

29

SEQ ID NO:7078
 SEQUENCE LENGTH:334
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08314
 SEQUENCE DESCRIPTION:

GATCCCCTGT CCCCTGGGGC TGGTGGATAG GGCAGAATCC TGGGCCCCCA GAGACCTTTG 60
 CCCACACACA CTCCTTCCCC TTGTCCCTGG GGNACTCCCC CAGGATTGTG CAATAGTCAG 120
 AGTGTCCCTT TTTGCAGGGG ACTGGGCCAT GGGTCCTAGG CCCATCTGTC CATCCTCCTC 180
 TCCATGCAAG TGCTGTTTGG GCAGNAGTCA CCATGCAAGG GTGNCATCGN CANCCACGTA 240
 CCAAGNCACC GCAGCTGCTG CCACTCTGCT GCCTGTACAG AAGGAANCTG NATCTTTTNN 300
 ATATTCTAAT AAAATNACTG TGGGNTTNA NAAA 334

SEQ ID NO:7079
 SEQUENCE LENGTH:245
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08315
 SEQUENCE DESCRIPTION:

GATCCCGTAA ATTGAAGGCA ACAAGGTCTT GGTCTNCAG TAAGGGGGGC ATGGAGCCCT 60
 GGTGGGAAGG AAAGAAGNGA AATTGTGTT CCTGATTCCT TAATCCCCAN GAAAGGTCCC 120
 TCTGCTAACA TTCACATATC TNTCCTAGC CAAAGTCTGT CCATTNAAAC CCTNTAGCAT 180
 CTGAGCTATC TGCATCCAGN TTTCAAANAT ATTCGNTGT TACTAACAT GTNTGTNAGC 240
 CTNTN 245

SEQ ID NO:7080
 SEQUENCE LENGTH:88
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08316
 SEQUENCE DESCRIPTION:

GATCACAAAT NACTTGTTGA AATGTAAGGC AGTCCCCCTC CTCCTCTTTA TCTACATTAC 60
 TTCCCGAAAA TAAATGCANA TTAATAAA 88

SEQ ID NO:7081
 SEQUENCE LENGTH:149
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08317

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SEQUENCE DESCRIPTION:

GATCAGGTCA CAGTGTGTAC GTAAGAGTCA GCTNCTTATG GNTATTGTCA TCTAGGTAAC 60
 TTTGTAAAAA AACAAACAAA ACTGGCATTG TTAATTCCAA AAAGAAAAAA AAAAGCAGTA 120
 AAAANAAANG GNCATTTGNA CCNCCGGCN 149

SEQ ID NO:7082

SEQUENCE LENGTH:312

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08318

SEQUENCE DESCRIPTION:

GATCTCAGCC TCGGGTGGTC AGGGTGGGAA ATGATAGGAA GAAGCTGTCA TCTGCATCCT 60
 AGTTTGCCTG AAATGAACCC AAATAATACC CATTATTATT AGTCCTGAAT TATGAGTAGT 120
 GAATGATACC CATCATTCTG GCATCATGAT GAGTAGTGTC CACTTCCATT CTGAAAAGTG 180
 CCCTGCTGTG AAAAATAAAT TATATAGTCC TCCTAGGTAA ATGAAGGAGG AGGGAGAAGT 240
 GTGAAAGAGT ATGGCTTAAA TCAGACAAGA TATACAAGAA GATACTTTAT ATAGGGCAGG 300
 AGCGGTGGCT TN 312

SEQ ID NO:7083

SEQUENCE LENGTH:87

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08319

SEQUENCE DESCRIPTION:

GATCTGGGAA ACTGATTGAA TAATACACTT TTCTTGCTTT GGTGCTCAAA GTGGTTTTTT 60
 TCCCCCAATA AAATTATTTA ATTGAAA 87

SEQ ID NO:7084

SEQUENCE LENGTH:312

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08320

SEQUENCE DESCRIPTION:

GATCAGGAAA TGCATCTNCG CAGATGGTAT TTCCTTCAGA AAAGACTTTN CTACTTTAAA 60
 TATAAATNAN GCCATAACAG TTTTCATGCTG TGGAAAGAGG GTGAAAAGGT TCATTTTAAG 120
 AGATTATATA ATANGACCTT NCACATTTC TGTGAAATGT CTAACCTTNC CAGTNCCTCA 180
 GCAAGTTTTT TTGGGGGGTG ATGGGGAGNN GGTAGTATTG GTTTTAGAGG TTTCAAATCT 240
 GTGANCTTTG GAGAGGGGAC AGTTGTTGGC TCTGGTATTT CCTAGTTTGT TAGTAACGTT 300
 TTGCTAGCCN NN 312

SEQ ID NO:7085

SEQUENCE LENGTH:168

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08321

SEQUENCE DESCRIPTION:

5 GATCTGATGG TTTTAAAAAG GGGTGTCTCC CTGCACAAAC TCATTCTCTG TTTGCCTACC 60
 GCCATCCGCT TAAGATGTGA CCTGCTCCTC CTTGCCTTCC GCCGCGATTG TNAGGCCTCC 120
 TCAGCTATGT GGAAGTGTAA ATCGAATTAA ACCTCTTTCT TTTGTAAA 168

SEQ ID NO:7086

SEQUENCE LENGTH:146

SEQUENCE TYPE:nucleic acid

10

TOPOLOGY:linear

CLONE:HUMGS08322

SEQUENCE DESCRIPTION:

15 GATCCATGTG TTTTACTCTA AAGTGCTAAA TATGGGAGTT TCCTTTTTTT ACTCTTTGTC 60
 ACTGATGACA CAACAGAAAA GAAACTGTAG ACCTTGGGAC AATCAACATT TAAATAAACT 120
 TTATAATTAT TTTTCAAAC TTAAAA 146

SEQ ID NO:7087

SEQUENCE LENGTH:314

SEQUENCE TYPE:nucleic acid

20

TOPOLOGY:linear

CLONE:HUMGS08323

SEQUENCE DESCRIPTION:

25 GATCAATAAA GCTGTCTTAC ACTTGTGCTA GGNAGGCACC GCTGTGACTG GGCTCCGGGC 60
 CTTTCCACTA CGTTGAAGAA GAAAACCTAT TTTTAAATGT AAATAAAATA TCTGGTAGCC 120
 TGTGTGGAAA GCTGACCGTT TTAAGAAGTG GCATGTGCCT TGAAAGGGGG CAGAATGTTC 180
 AGTCGGTCGT GTTTTAAACA CAGAGTCTCT AGAAGAGGTG CAGACATCCC GTCTGACTGT 240
 CCCTGTGGAC TCTCTCAGTT GTATGTTGCT ATAATCCTCC AAATCAAAGC TCTTCTGCT 300
 30 TGTGCAAGAT TNNN 314

SEQ ID NO:7088

SEQUENCE LENGTH:71

SEQUENCE TYPE:nucleic acid

35

TOPOLOGY:linear

CLONE:HUMGS08324

SEQUENCE DESCRIPTION:

40 GATCTTACTG AATTTATTTT GTAAATGCCT AATGAGGCAG ATTTTGAAT TAAAGAAATG 60
 CTACATGTAA A 71

SEQ ID NO:7089

SEQUENCE LENGTH:412

SEQUENCE TYPE:nucleic acid

45

TOPOLOGY:linear

CLONE:HUMGS08325

SEQUENCE DESCRIPTION:

50 GATCCTAACA TATCAGGACA TGGACTCAGG ACCTGCCCCG TGATGCTGTT GATTTCTCAA 60
 AGGTCTTCCA AACTCAACA GAGCCAGAAG TAGCCGCCCG CTCAGCGGCT CAGGTGCCAG 120

55

5 CTCTGTTCTG ATTCACCAGG GGTCCGTCAG TAGTCATTGC CACCCGCGGG GCACCTCCCT 180
 GGGCACACGC CTGTTCCCAG CAAGTGCTGA AACTCACTAG ACCGTCTGCC TGTTCGAAA 240
 TGGGGAAAGC GTGCGTGGCG GTTATTTATT TAAGTGCGCC TGTGTGCGCG GGTGTGGGAG 300
 CACACTTTGC AAAGCCACAG CGTTTCTGGT TTTGGGTGTA CAGTCTTTGT GTGCCTGGCG 360
 AGAAGAATAT TTTCTATTN TTTTAAGTCA TTTCATGGTT TCCTGGTCCT GN 412

10 SEQ ID NO:7090
 SEQUENCE LENGTH:91
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08326
 15 SEQUENCE DESCRIPTION:
 GATCTATTTT TGGCTTATGT CTTTAAATAC TACTCTCTT CTCTGAATTT TGAATATGA 60
 AGTAAATCT AGCCCATTTG TTTTATGCAA A 91

20 SEQ ID NO:7091
 SEQUENCE LENGTH:294
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08327
 25 SEQUENCE DESCRIPTION:
 GATCTCAAGA GTTCAAGACC AGCCTGGGCA ATATGGTGAA ACCCGTTTGT ATTAAAAATA 60
 CAAAAATTAG CTGTGCATGG TGGCCACACG CTGTAATCCC AGCTACTCAG GAAGCTGAGG 120
 TCCGAGAATC ACTTGAATGC TTGAACTCGG GAGGCAGAAG TTGCTGTGAG CCGAGATGGC 180
 ATCACTGCGC TCCAGCCTGG GCAACAGAGA GAGACTGTCT CCACTGTCTC CAAAAAATA 240
 30 NGAATAAAAA AAGGTTGTTN GATTCTGCGC CCTCAAGGAA ATTNTGGAAA ANAN 294

35 SEQ ID NO:7092
 SEQUENCE LENGTH:79
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08328
 SEQUENCE DESCRIPTION:
 GATCATGTTT TGAAGCAGCA GGTCCAGGTC ACTTTGTATA TAGAATTTTG CTGTATTCAA 60
 40 TAAATCTGTT TGGAGGAAA 79

45 SEQ ID NO:7093
 SEQUENCE LENGTH:122
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08329
 SEQUENCE DESCRIPTION:
 GATCTTTCCC TAGAGAATGT AACATACGTT TTTATTCATT TAATCACTTC ATTATGCCGG 60
 50 GGTAAATNAT GTTTATTTTA TAATTGGTAA TAAAGGCCAC ATTTATTTT GTAACGTGA 120
 AA 122

55

SEQ ID NO:7094
 SEQUENCE LENGTH:50
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08330
 SEQUENCE DESCRIPTION:
 GATCTTAAAC TCTTTGATTA AAAATAATAA ATGGAAATGT GTTAAGCAAA 50

SEQ ID NO:7095
 SEQUENCE LENGTH:77
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08331
 SEQUENCE DESCRIPTION:
 GATCCAGGGA TTTGGGAAA AGGAAGGAAT TTGATGTTT TTGGGGTGGG AGGGGAGGGT 60
 GTGTTTTTTA CACCAAA 77

SEQ ID NO:7096
 SEQUENCE LENGTH:186
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08332
 SEQUENCE DESCRIPTION:
 GATCGCTGGC CTTCTGACT TAACATTNAT GCATGCCAAG GTGTTGATGT TCCCAGCCAC 60
 GTTAACACCT TCCACAAGNT CTCAAGAAAA AGCAGACGGA TAACTGATGT GAATTGGACA 120
 GTTCTATTG CTTTTCCTTT TTTCCATCCC TTCCTACCA TCAAAAGCAT ACCTGCTCTA 180
 ATTAAA 186

SEQ ID NO:7097
 SEQUENCE LENGTH:291
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08333
 SEQUENCE DESCRIPTION:
 GATCATATAC TCTGCTGTGG TCATGCCCAC TCTTTGGGAG TATATCCCT TTATATATAT 60
 TGAGTATTGT ACCACTTGAG AAATTCCTTT GTTCTGTTAT ACAAATTA TCTTTCTGCT 120
 CATAATGATT GATGATACCA CCAGTAAAA TAGGATGTTT ACCCCAAAAC AAGTGCAAT 180
 TAAGAATTG AACACAACCA CATTTTTTAA AATGAACTT CTATCGGAAG TAAATTAATT 240
 TNGGTAATA AAGTCCAGTA TTNGGNAAA TGTACAATGT TAAATCTCAA A 291

SEQ ID NO:7098
 SEQUENCE LENGTH:307
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS08334

SEQUENCE DESCRIPTION:

5 GATCAGACTT TTGTNTCTTG GGTCCCAGAT GGCACAGGAG CACTGCATGC TTGTTTTCTA 60
 GAGCCCAGCC AGTCATGGGT GCTAGCCTAG TCTCCACACA CCAGCAAGTA GAACCCAAGT 120
 GTANNNNNAT AAATATTTC TGAGTACCAG TAAGAGAATG CATTCTTTTC TCATCTAGGC 180
 CAGGAATGTT GAAAATGCTC AGCCTTACAT AGAAACTCCT AGATTTTCAC TAACGCATTT 240
 CACAAAAGTA AATAAGTATT TCATATAATT CAGAGGATGT TTAAATTGTC AGCATTTTAA 300
 TAAATAN 307

SEQ ID NO:7099

SEQUENCE LENGTH:199

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS08335

SEQUENCE DESCRIPTION:

20 GATCTGTA CT TTGAACAAAG AAAGTGTGTA GAGACCCCTG GGAGTGAGGG GTAGGGGATA 60
 CAATACTCTG AAGCAGAAGA GGACCCCTGC AGTGATGGTT AGGGACTCTT CTGAGTAGGA 120
 GACGTAATCG GCTTTTGCTC CATGGAACCT TTACCACATG TATTCAGCAT ATATACACGA 180
 TTAAAGTGCT GCAAATAAA 199

SEQ ID NO:7100

25 SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08336

SEQUENCE DESCRIPTION:

30 GATCTGGGAG TGGCTTCCTA ACGGAAATGG AACAGGATTA CCAACTAGTN GACGAAAGTA 60
 ATGCTTTCCA TGACAACCTT AGGTCTCTTG ACAGNAATCT GCCCTCAGAC AGCCAGGACT 120
 TGGGTCAACA TGGATTAGAA GAGGATTNA TGTATAAAA GAGGATTTTC CCACCTTGAC 180
 ACCAGGCAAT GTAGTTAGCA TATTTANNGT ACCATGGTTA TATGATTAAT CTGGGGACAA 240
 AGAATTTNAT AGAAATTTT AAACATCTGA AAAAGAAGCT TAAGTTTAT CATCCTN 297

SEQ ID NO:7101

SEQUENCE LENGTH:296

SEQUENCE TYPE:nucleic acid

40 TOPOLOGY:linear

CLONE:HUMGS08337

SEQUENCE DESCRIPTION:

45 GATCTTTGTC TGTGAAGAAG AAAATTATCT CCCTAGTTCA ATCTGTAGTG AAATAAGGCT 60
 ACAGAAGGCA TTGTTTTTTC CTTTTTNATT TTTGTATTA TATATTNCC TTAAATATGT 120
 TTTATTGTCT TCTCTANGCA AAAAGTTCTT AATAANCATA GTATTTCTCT CTGCGTCCTA 180
 TTTCAATAGT GAAGACATAG TTCACCTAAA ATGGCATCCT GCTCTGAATC TAGNCTTTTT 240
 AGAAATGGCA TATGGTTTTG ATGATATGNC CACCATCCAA AATGTCCGAN TNAATN 296

50 SEQ ID NO:7102

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SEQUENCE LENGTH:305

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

5 CLONE:HUMGS08338

SEQUENCE DESCRIPTION:

GATCAACTTT AAGAAGATT ACAAAACGCT CAAGAAAGAN GAGGATATCC NACTNTTCCC 60
 CGTGCAGACA AAATACATGG ATGTGGTCAA NGAGTGAATC CGTTAGCTC GACAGATTGA 120
 10 GAAATCTGAG TATCGGAACT TCCAGGCTTG CCTNCACAAC TCTTGGATTG AGCAGGCAGC 180
 AGCTGCCCTG GAGATTGAGC TGGAAAGANGA CATGTATAAG GNAGGAAAAG CTNNCCAGCA 240
 AGAAGAACGT CGGNGACAAA AGCAGATGGN GGTCTNGAA GAAGGAGCTG CGNCNCCTGC 300
 TTNTN 305

15 SEQ ID NO:7103

SEQUENCE LENGTH:414

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

20 CLONE:HUMGS08339

SEQUENCE DESCRIPTION:

GATCCACAAG TCCTTGTTCC ACTGTGCCTT GGTTCCTCTT TTATTCTAA GTGGAAAAAG 60
 TATTAGCCAC CATCTNACCT CACAGTGATG TTGTGAGGAC ATGTGGAAGC ACTTTAAGTT 120
 TTTTCATCAT AACATAAATN ATTTCAAGT GTAACCTATT AACCTATTTA TTATTTATGT 180
 25 ATTTATTAA GCATCAAATA TTTGTGCAAG AATTTGGAAA AATAGANGAT GAATCATTGA 240
 TTGANTAGTT ATAAAGATGT TATAGTAAAT TNATTTTATT TTAGATATTA AATGATGTTT 300
 TATTAGGATA AATTTCAATC AGGGTTTTTN GGATTAANCA ACCANCCAAT TGGGTCCCCA 360
 GTTAANTTTC CATTTCAGAT ANCCACCANN TAGTTTCNNN GTNTAGGTCC ATTN 414

30 SEQ ID NO:7104

SEQUENCE LENGTH:252

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35 CLONE:HUMGS08340

SEQUENCE DESCRIPTION:

GATCCCCTGA CTGGCTGGGG GCAGCTCCCA GGATATCCTG CCTTCCAAC TTTCTGAAG 60
 CGCCTCCTCC TAACATGGCG ATTCCGGAGG TCAAGNNCNT GGGCTCTCCC CAGGGTCTAA 120
 CGGTTAAGGT GACCACATAC CAGTGCCAAG GGGNTTNTAA AGTGGTGATG TAGTTNTGCT 180
 40 CCCCTCCCCA AGAGCGGGTG GNGGGGGGTT NAANATGTTT GGCCTGNNTA AGTGGGCCTT 240
 CCCATTNAAG TN 252

SEQ ID NO:7105

45 SEQUENCE LENGTH:318

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08341

SEQUENCE DESCRIPTION:

50 GATCTTATTT TTTAATTTTA AGTGCCACTA TTAATGTAAA AAGGGGGGGG CTCTACAGCA 60

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5 GTCGTGATGA AACTTAAATA TATATCCTTT GTCCTCGAGA TTTTAGGAAG GGTGTAGGGT 120
 GAGTAGGCCA TTTTNAATTN CTGAAGTGCT AAGTGTTTT ATACAGCAAA CAAAAAGTCA 180
 ATTTTCCTTT CCACCAGTGC GAGAGAGGAT GTATACTTTN CAAGAGAGAT GATTGCCTAT 240
 TTNCCGTTTG ACAGAGTCCC GTAGATGAGC AATGGGGAAC TGGTTGCCAG GGTCTAANTT 300
 TGGATTGATT TATGCACN 318

10 SEQ ID NO:7106
 SEQUENCE LENGTH:299
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08342
 SEQUENCE DESCRIPTION:
 15 GATCTGTGAC CCCAGCCATG AGGACCCTCG CCATCCTTGC TGCCATTCTC CTGGTGGCCC 60
 TGCAGGCCCA GGCTGAGCCA CTCCAGGCAA GAGCTGATGA GGTGCTGCA GCGCCGGAGC 120
 AGATTGCAGC GGACATCCCA GAAGTGGTTG TTTCCCTTGC ATGGGACGAA AGCTTGGCTC 180
 CAAAGCATCC AGGCTCAAGG AAAAACATGG CCTGCTATTG CAGAATACCA GCGTGCATTG 240
 20 CAGGAGAACG TCGCTATGGA ACCTGCATCT ACCAGGGAAG ACTCTGGGCA TTCTGCTTN 299

25 SEQ ID NO:7107
 SEQUENCE LENGTH:302
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08343
 SEQUENCE DESCRIPTION:
 30 GATCTTAGAG GTTGAAGCCC ACCTTCTCTT TTCACATAGG AGGGAACAGA CCATGGAAAT 60
 TTAACGACT TCCTCAGGT CACAGAACTA GTTTTTAAT CCTCAGGCAG TGNATCCCC 120
 CACCCTACAA CTGTGCACAA CCTCTTTCCC CACAGTGCAA TTCAGAATAT GCTCAGGGAA 180
 TGCCAGGCAC CTTGTAAAAC TGCTGGGAGA AAAGCATGNT TCCCACAAGG ACTAAGTATC 240
 AGTGATTGT AATTTTCCTG TTTTGTATTA TCTGCTTGC TGATGTAGAC AAGAGTTAAC 300
 TN 302

35 SEQ ID NO:7108
 SEQUENCE LENGTH:110
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 40 CLONE:HUMGS08344
 SEQUENCE DESCRIPTION:
 GATCNAACTG TCTCACTGCT TTTCCAACTA TAATCATNTC GCTCTNACTT TAACAAAAGG 60
 CGATGGCACA GTAATTTAGT AAATTTNTGT AATAACATNT AAAAAAAGN 110

45 SEQ ID NO:7109
 SEQUENCE LENGTH:121
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 50 CLONE:HUMGS08345

55

SEQUENCE DESCRIPTION:

GATCCTGTCT AAAAAAGAAA AGAAAAGAAA AGAAAAGAAA AGAAAATCAG CATTGTATCC 60
 CCAGAACCTG CTACAGTGTA CTGTACACTT AATAAATATT GGTGAATGA ATGAACTGAA 120
 A 121

SEQ ID NO:7110

SEQUENCE LENGTH:99

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08346

SEQUENCE DESCRIPTION:

GATCATCAGT AAATTTGTCA TGTTATATAT TTATTTTTTT ATAAATCAAG ACTTCTGTGT 60
 GCTCTTAAAT ATATTAAAA CAATTACAT TTCAGGAAA 99

SEQ ID NO:7111

SEQUENCE LENGTH:92

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08347

SEQUENCE DESCRIPTION:

GATCCCAGNA GGAGGGAAGA AAATTTCAG TGAAGTAAAA CAGTAAAAAA AAAAAAATA 60
 ATGTATAAAA AAGTTGCATT ACACAGTNCA AA 92

SEQ ID NO:7112

SEQUENCE LENGTH:304

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08348

SEQUENCE DESCRIPTION:

GATCATTCTN GTTGATACCC TTCTTTGAAT ATTCTAGTGT ATTAATATAC CATTGGTTAT 60
 TNAATCATGT CTNATTAATG GACTGGCTGT TTTCACATAT TNGATATATC AAGTGTCTTC 120
 ACAACTTGTG CTTGCATATT CTTTCCCAAA ATATTGAAAG TCCATATATT TCCTGTGACA 180
 TTTTAAAGT TGATATCTNA ATNTNTCATT GTAGTNGCAA AGCATGTAAT TNCTGGGGG 240
 AGGGGGGCTG TAAATATTGA CATTTTAAAA TAAACTTTT AAATCAGCCT TAAATGTATC 300
 AGGN 304

SEQ ID NO:7113

SEQUENCE LENGTH:309

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08349

SEQUENCE DESCRIPTION:

GATCAAAATTT CACGTCGTCT TCTGTATACT GTGGAGGTAC ACTCTTNTAG AAAGTNCAAA 60
 AAGTCTACGC TCTNCTTTCT TTCTAACTCC AGTGAAGTAA TGGGGTCCTG CTCAAGTTGA 120
 AAGAGTCCTA TTTGCACTGT AGCCTCGCCG TCTGTGAATT GGACCATCCT ATTTAACTGG 180

CTTCAGCCTC CCNACCTTCT TCAGCCACCT CTCTTTTCA GTTGGETGAC TTCCACACCT 240
 AGCATCTCAT GAGTGCCAAG CAAAAGGAGA GAAGAGAGAA ATAGCCTGCG CTGTTTTTTT 300
 AGTTTGNNN 309

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SEQ ID NO:7114
 SEQUENCE LENGTH:282
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS08350

SEQUENCE DESCRIPTION:

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GATCTTCCCC AGCTATGAAG CCTATCTTGG AATGGGAAAC CATGAAATTT GTCTTTTAAA 60
 AGAAAGGGAA GAAATAGCCT TACAGCCCCT GTTCCTCCAA GTGCACATTT AGCCTTAAAA 120
 TCCTGGGAGT CGGGAGACAC CGTGGAGTCC TTACATCCAC AGTGTCTGCT GGTGCTGGTC 180
 AGAAGGCAGT AATGCAAGAG TCCTTTTGTG AAGAGTGTTT CTATGTAGAG ATGTTTATAT 240
 TTAAGTAGTT CTTTATAAA TAAAAGCATT TCTAATGGCA AA 282

20

SEQ ID NO:7115
 SEQUENCE LENGTH:27
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

25

CLONE:HUMGS08351

SEQUENCE DESCRIPTION:

GATCTGTTTT CTGTAACTTT TGCTAAA

27

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SEQ ID NO:7116
 SEQUENCE LENGTH:251
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

35

CLONE:HUMGS08352

SEQUENCE DESCRIPTION:

GATCTTAGGC TTCAGCTCTT TATCTTACAC CTTGAGACCC CAAGAGAGTC CCAAATTCCT 60
 GGAAAGGCAG CATCACAGAG TGGGAAATA CAGGACTTGG CTTTAGGTTT TAGTCCTTAA 120
 CACAGCTTCT TCCTTGCTGT GTGTCTTTG GTAGGTCAC AAATCTCTCT GAGCCTCAAA 180
 TTTCTTATCT CTAGGTTGAA AAATAAATA AAGTCCCAT GCCAATCAGT GCAAGGAATC 240
 TGTGAGATAA A 251

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SEQ ID NO:7117
 SEQUENCE LENGTH:123
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS08353

SEQUENCE DESCRIPTION:

GATCACGCCA CGGCACTCCA CCCTGGGCGA CAGAGCGAGA CCTTGTCTCA GAAAAATCT 60
 GTGAGGTAA AAGGCTGTGT GTGTGAAAT ATCTTGAAA TTGTAAAGAA CTACACAANT 120
 AAA 123

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SEQ ID NO:7118
SEQUENCE LENGTH:295
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08354
SEQUENCE DESCRIPTION:
GATCATTCAT CAACATGTGT CTCTNAATTT AATTCAGTAG TTGTAATTAT TCTTTGGTTT 60
AGACCAAGAA AAAGGAAATC CCCCCTTTNA ATGTATTCCT TGGTTTNAGG ACATGACTCC 120
TGTAAGGNAG AGGAAAGGGA GATGCTTCCT GTTTGANCTG CAGTGAATTC ACGGTTCTTG 180
TTTCACCACT CCAAACCTTA TGGCGACTCA CACACACATT CCTCTTTNCT GTTACTGCCA 240
AAGGTTCTGGG TTAGTACAC TTCAGTTCCA CTCAGCATT GAAAAGGTTT TCGTN 295

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SEQ ID NO:7119
SEQUENCE LENGTH:203
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08355
SEQUENCE DESCRIPTION:
GATCCCCAGG ATGCCCACTT CCCTCCACCC CCACACCCCA GCCGTGTCCC TAACCCCTGG 60
CAACCAGGAA TCCACTCTCC ATTTCTATAA TGTTGNNATT TCAAGAATGT TATTCAATGG 120
AATCATATAG TATGTAACCT GTTTTGAGCT TAAAAAATAA GTATACATGA CTTTAATGAG 180
GAAANTAAAA NTGGATATTG AAA 203

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SEQ ID NO:7120
SEQUENCE LENGTH:82
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08356
SEQUENCE DESCRIPTION:
GATCCGTTAG TGTCTGTTTA GAAAAGATGT TATAAACTTA CAGAAACAAA TATAATAAAC 60
TGAAGCAGAT TTGAAAAGCA AA 82

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SEQ ID NO:7121
SEQUENCE LENGTH:79
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08357
SEQUENCE DESCRIPTION:
GATCTTTTGC ATTGCAGAGA TTTTATATAT ATTTTGTGTTG TAATGAGCCA TTCTCAATAA 60
ACATTATTCT CACTGCAAA 79

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SEQ ID NO:7122
SEQUENCE LENGTH:299
SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear
 CLONE:HUMGS08358
 SEQUENCE DESCRIPTION:
 5 GATCCCTAGT AACTCCTTC TTCACITTTA CTGTCAGATT TACAAAGGTC CTCCCATTGC 60
 AAAGCAGTGN NNNTCCTAAT TTATATATTG TTTNCTAGT TCATTTTGTG TTTCCAACTT 120
 TTCATGTAAA ATTTTAATTA TTTTGAATG TGTGGATGTG AGACTGAGGT GCCTTTTGGT 180
 ACTGAAATNC TTTTCCATG TACCTGAAGT GTTACTTTTG TGATATAGGA AATCCTTGTA 240
 10 TATATACTTN ATTGGTCCCT AGGCTTCCTA TTTNGTNACC TTGCTTNNN NGTGGCANN 299

SEQ ID NO:7123
 SEQUENCE LENGTH:108
 SEQUENCE TYPE:nucleic acid
 15 TOPOLOGY:linear
 CLONE:HUMGS08359
 SEQUENCE DESCRIPTION:
 GATCATGTGC CAAGGCTGCG GTGCGTTCG TCACGATGAC TGTATTGGAC CCTCAAAGCT 60
 20 CTGTGTATTG TNCCTTGTGG TGAGATAATA AATTATGGCC ATGGGAAA 108

SEQ ID NO:7124
 SEQUENCE LENGTH:113
 SEQUENCE TYPE:nucleic acid
 25 TOPOLOGY:linear
 CLONE:HUMGS08360
 SEQUENCE DESCRIPTION:
 GATCAGACTG TGCTTTCTAA TTCTAAAAA TTGAGCAGTG TTGGTATTCT TNCAGTATTT 60
 30 TTNCTCTCAC CTGGAAAACT ACCTGGAAGT TGTGAGGCAT TTNCTTACTG NNN 113

SEQ ID NO:7125
 SEQUENCE LENGTH:125
 SEQUENCE TYPE:nucleic acid
 35 TOPOLOGY:linear
 CLONE:HUMGS08361
 SEQUENCE DESCRIPTION:
 GATCTCTAAG TAATTNTNCA AAATCCGGTA TTACTATGTC AAGTTATTGC TTTTGGTAAA 60
 40 TTCATCTGAC CCAGTTATAA ATGAAAGANT ATGGANTTAA AAATTTTAAA NCTAAATAAT 120
 TTGNN 125

SEQ ID NO:7126
 SEQUENCE LENGTH:122
 SEQUENCE TYPE:nucleic acid
 45 TOPOLOGY:linear
 CLONE:HUMGS08362
 SEQUENCE DESCRIPTION:
 GATCATGCTC CATCCAGCCC CACCCAAATGG CCTTTTGTGC TTGTTTCCTA TAACTTCAGT 60
 50 ATTGTAAACT AGTTTTTGGT TTGCAGTTTT TGTGTGTGTT TATAGACACT CTTGGGTGTA 120

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5 SEQ ID NO:7127
 SEQUENCE LENGTH:256
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08363
 10 SEQUENCE DESCRIPTION:
 GATCGGCACT CACGATTGTN ATGTTGGCTA CATCCTTGAC AAAGCCGATG GCCTTTCCAG 60
 GTTGGAACTT GCAATAACCA TCCTGTTGAG GATGCAAAGG GCATGAAATA CAGGTTATGG 120
 ACCCGAAGTC TCAGCCTCCC CACGCAGTTC AATAACATTT ACTAAACAAA ACAAGATGTG 180
 15 CCAGGGCCTG GGGGATGGGA TAATTCAGA GAGAATTAAG GCATCCTTGT CCTCAAGGAG 240
 CTTAGGGTCT GGTAAA 256

SEQ ID NO:7128
 SEQUENCE LENGTH:346
 20 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08364
 SEQUENCE DESCRIPTION:
 25 GATCAACAGG GGTGAAAAGA ACCACCCTGA GGTTCCTATG CCTCTCCCAN NTTAGTGGT 60
 AGNATTTTGT GTCCTTACTC CACCCTTCAC CCTAGTTCCA CCAAGGTTCA CACACCAGAT 120
 GTAAGTGTG TNNAGCTGAG TTGTATGGAT TAACTTCAGT CCACTGTAAA TACACCTGGG 180
 ATGGGGTGGG GTTGGGGTTG TTTAGGGAGA AGCAGCCAGA CTTGCTTTGT GAACTGAATG 240
 TATTTTATG CAATTTTGAG TGGCCTTTCA ACCCTAAGAT GAATGGTTTT GTTTTACTGG 300
 30 TTGTTGTTAT ATAGTTTGA GTATTCTGTG TTTGAAAGTT TGGGTN 346

SEQ ID NO:7129
 SEQUENCE LENGTH:42
 35 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08365
 SEQUENCE DESCRIPTION:
 GATCGTGTCT CTGATAAAG AATAAAGCT GTTTATTGCA AA 42

40 SEQ ID NO:7130
 SEQUENCE LENGTH:338
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 45 CLONE:HUMGS08366
 SEQUENCE DESCRIPTION:
 GATCTTAGGT CCCACTCANG GTCCTAACTG GCTATGGCCA CAGCTGGAAC TACCCGAGAA 60
 GNCTTTTGTG CATGTTTGGT AGCCGTAGCA CAAGTGATTG GAGTAGAACA TGCTACTGCT 120
 50 GTACATTTT AACTCCCCTA ATGGTGTGTC TATAATTNTN AAATCTAAGG GGGGGGGCTC 180
 AGTAAAGCCT CCTGGCACCA GGCCTTCCTG CTCGACTGAA AAAAATTCN TCTTTGAAAA 240

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TCCCTTTTA CTCATGGCCC ACAGTAGAAT ATCCAAAACG CCTTGGCTTT CAGGCCTGGC 300
 CTTTCCTACA GGGAGCTCAG TAACCTGGAC GGCTCTAN 338

5 SEQ ID NO:7131
 SEQUENCE LENGTH:294
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08367
 10 SEQUENCE DESCRIPTION:
 GATCTTTTCA AGATGCATTC CAGATGAACT GCTAGGTGAG GGGGAAGCTT CATTTTGTG 60
 ACCTGATAGA ATAGCTTNC TNATGAGATA TATATAATGT GATACTATGT TTGGATATTT 120
 TTGGTCTTAA AGCAAGACTC AGTGGTGTAT CTNCATTAAG AGCTTCCTTT AAAAAAGNTA 180
 15 CAGGGNTACT AAAAAACAA GNACCCAAAC AATCAAGNTG GGCCACCTT GGNACCNTGT 240
 TTTGNATNAC CTCCATGGT TTGGTTGGCG GTATGGNAAA AGGATTGNNT GGTN 294

SEQ ID NO:7132
 SEQUENCE LENGTH:107
 20 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08368
 SEQUENCE DESCRIPTION:
 25 GATCATGCTG TGTGGAGGAC AAATCTTTAA AATTCCAGCA TTGTATTGTC TATTGACACA 60
 CAAAGTTTGA AAATAAAGGG GCAAAAAATT TTAATGCAAA AATGAAA 107

SEQ ID NO:7133
 SEQUENCE LENGTH:328
 30 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08369
 SEQUENCE DESCRIPTION:
 35 GATCTGCGAT GGCTGACATN AATAGGTCAC CATGTTGGCA GCTGTATAAT CAGCAATGAA 60
 AGCTGAATAT TATCACCAGA TAACCAAATT ATGAAATATC TATATNANCT TCANGATTCA 120
 GGNCCANTGA ACCAGTATCT GCCCTTACGA GATTTAGCTG AANGTGAANT GCAAGGTGGT 180
 GAACGGCATT CTAACAAGAG TGTGAAGAAA GAGATNGANG GCTGTCCGCT GCTGGAGGGG 240
 AAGAANGGTG GGGCGGCTTT TNCAAGGCTC TGTGGCTCAG TGGACCTTCA ATANATTGGA 300
 40 CCTTCAATAA ATTAATTGNA AANCANGN 328

SEQ ID NO:7134
 SEQUENCE LENGTH:244
 45 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08371
 SEQUENCE DESCRIPTION:
 50 GATCTGAGGG ATTTGCTCGT CATTTGCTGT GGCAGAGATG ATGTTGACAC CCTGGGATGC 60
 TGTGGGAGGG ACAAAGACT CACGTATATG TTCTGTCAA TCGGAGAAGT AAATAATCCG 120

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5 TTGGGATGCC AGGATACTTT ATTCTACAGC GAAGTTAATT TTGTATCCGT CGAGGCTACA 180
GTAGAGGTAA AAATGACATT GAGTTGTACT TTGCTTTGAA TTAAAGTTGA TGGGTAGCAG 240
CAAA 244

10 SEQ ID NO:7135
SEQUENCE LENGTH:48
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08372
SEQUENCE DESCRIPTION:
GATCTTGACT CCAAAAATTA ATAAATAAAT AAAAATAAAT AAAATAAA 48

15 SEQ ID NO:7136
SEQUENCE LENGTH:48
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
20 CLONE:HUMGS08373
SEQUENCE DESCRIPTION:
GATCATGGTA TAATTAATTG AAATTTATTA AAATCTGTTT TTATTAAA 48

25 SEQ ID NO:7137
SEQUENCE LENGTH:267
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08374
30 SEQUENCE DESCRIPTION:
GATCTGTGAC TTCAAGTTTG GACCGTGGA GAACAGCACT TTCAAACCCA CAACTGAGAA 60
TNA TGACACA GGGACAAGTA GCAGTGATAC ATCAGATGAC GACGATGNT GAAGGATTC 120
CTAACAGCTT TNGAAATCTT AGTGTGATAC ATCTCTCATA CAGTTTGGGG NGAATTGTNA 180
AAATGAAAGG ACTATANTTT ATGTAGTGGA ATACCCCN NN AGAAGAGGNN TTTTTTGGGG 240
35 GCTTCAACTT GNTGGAAACC NAGANTN 267

40 SEQ ID NO:7138
SEQUENCE LENGTH:314
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08375
SEQUENCE DESCRIPTION:
45 GATCATTGAA ATTCTGAGAA AACTTCTTTT AAACCTCACC TTTGTGGGGT TTTTGGAGAA 60
GGTTATCAAA AATTCATGG AAGGACCACA TTTTATATTT ATTGTGCTTC GAGTGACTGA 120
CCCCAGTGGT ATCCTGTGAC ATGTAACAGC CAGGAGTGTT AAGCGTTCAG TGATGTGGGG 180
TGAAAAGTTA CTACCTGTCA AGGTTTGTGT TACCCTCCTA TAAATGGTGT ACATAATGTA 240
TTGTTGGTAA TTATTTTGGT ACTTTTATGA TGTATATTTA TTAAACAGAT TTTTACAAAT 300
50 GGAANAAAGA NAAA 314

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SEQ ID NO:7139
SEQUENCE LENGTH:349
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08376
SEQUENCE DESCRIPTION:
GATCCAGAGT AAATGAGAAG TCTCTATCTG AGCTGGTCAG TTAGTGGAGT ACATGTNACT 60
AATCTGGGTT TAAAGTTTAC TTCATTATCT GCTAGTGTC TCCACAGCAG TTCATCCTCA 120
TCCACACTAA GCCATCCTGT NAGCTTTTAA AGGAAAGTTAA TTAAATTAAC ATTAATATAC 180
TCTATGGGCT CCCTCTCCA CCTGTCTGCA TAGAAAGGCA GAATTAGACA TAGCATGCTT 240
TGGAAAAGCA AATAGGAATT GTTGGGAATG ATTTANTCTT GTTGTGTGTG TTGTTGTTGT 300
TCACTTGTGG TTCTACATTC CTGGTGNATG NTGAATGTNG CTGTCAAGN 349

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SEQ ID NO:7140
SEQUENCE LENGTH:347
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08377
SEQUENCE DESCRIPTION:
GATCTTGTGC TTCCATTAA GAAATTCTTC CATTAAAGA AGAAAAAAAA TCTCTCTAAT 60
TGAATATCTG AAGATATATG AAAAAGCCTA TGCTTTTAAA TTAANCTGTT AAGACAGTCC 120
ATTGAAAGAT TGTGGAAGTN CACATCTATT TTNCACCTTA ATTTTTCCTA TTGTCCCTAC 180
TCATGACTCT AAAAAGTGCA TGGCTTGGGG CTATACTTTG TTTTGCAGTT TGTGGGTATC 240
GTGCCTTTCC TTATCTACAT TAGCTTAGAC TATACCTTNT TTTTNAAGA GGGAAAGTGGN 300
AATTAAGTGT GGCAAAACCT ATTTNGGCAC ACCNCCTTTG TTCAATN 347

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SEQ ID NO:7141
SEQUENCE LENGTH:121
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08378
SEQUENCE DESCRIPTION:
GATCTTAATT CTTTGCAATT ATANATGAAA AATGACTGAT TTTTCTNAAA ATATGTAAT 60
TATNTAAATA TATCTGTTTG TACAGATTTT AACCATAAAA ACATTTTGG AAAACCATAA 120
A 121

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SEQ ID NO:7142
SEQUENCE LENGTH:409
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08379
SEQUENCE DESCRIPTION:
GATCTGGAAA CTATTTGGGT TTTGTTTCA ACTTTTCATT NGGATGTTG NCNTTGCACA 60
CACACATCCA CCGGTGGAAG AGACGCCCGG TGAACACACC TGTCTGCTTT CTAAGCCAGT 120
NAGGTTGAGG TGAGAGGTTT GCCAGAGTTT GTCTACCTCT GGGTATCCCT NNTGTCTGGG 180

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5 ATAAAAGATN TCAAGCCAGT TGGCGGGATG GAATGGNTGC ACCGCAAATA ATGCATTNC 240
 TGAGTTTTCT TGTAAAAA AAATTTTTT AAGTAAGNAA AAAANAGGTA ATAACATGGC 300
 CAATTTTNTT ACATAAAATG GCCTTTCTGG NGTNTAAAT ATTCTAAAA AAATCCNGTT 360
 TTATATANAC NATCCAGTTG NTGGAAAAA NTTTTCCAAA NGTTTTTGN 409

10 SEQ ID NO:7143
 SEQUENCE LENGTH:89
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08380
 SEQUENCE DESCRIPTION:
 15 GATCTAGAAA ACTTTGGATT TTTGAAGTAA ATTTAATGT TTCATATTAA TTTCTTGAAA 60
 ATGTATTAAA TGTCATTGAA AGCCTTAAA 89

20 SEQ ID NO:7144
 SEQUENCE LENGTH:375
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08381
 SEQUENCE DESCRIPTION:
 25 GATCACTGTG GACCATCTTA GCAGTTGACC TAACACATCT TCTTTTCANN ATCTAAGAAC 60
 TTTTGCCACT GTGACTAATG GTCCTAATAT TAAGCATGTT GTTATATTT ATCATATATC 120
 TATGGCTACA TGGTTATATT ATGCTGTGGT TGC GTTCGGT TTTATTTACA GTTGCNANTA 180
 CAAATATTTG CTGTAACATT TGA CTCTAA GGTTTAGATG CCATTTAAGA ACTGAGATGG 240
 ATAGCTTTTA AAGCATCTTT TACTTCTTAC CATTTTTTAA AAGTATGCAG CTAAATTCGA 300
 AGCTTTTGGT CTATATTGTT AATTGCCATT GCTGTAAATC TTAATGAA TGAATAAAAA 360
 30 TGNTTTCATN NTAAA 375

35 SEQ ID NO:7145
 SEQUENCE LENGTH:513
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08382
 SEQUENCE DESCRIPTION:
 40 GATCTCGCTC CTTTGAGAGG TCCCATAAAA GCAAGCACCA TGGTGGCAGT CGCTCAGGAC 60
 ATGGCAGGCA CAGGCGCTGA CTTTCTCTTC CTTTGAGNCT GCATCAGTTC TTGGTNTTGC 120
 CTATCTACAG TGTGATGTAT GGA CTCAATC AAAACATTA AACGCAAACT GATTNGGATT 180
 TGATTTCTTG AAACCTCTA GGTCTCTAGA AACTGAGGA CAGTTTCTTT TGAAGAAGAC 240
 TATGTTAATT TTTTGCACA TTAATATGCC CTAGCAGTAT CTAATTAATA ACCATGGTCA 300
 45 GGTTCATTG TACTTTATTA TAGTTGTGTA TTGTTTATTG CTATAAGAC CTGGAGNGTG 360
 AATTCTGTAA AAATGTATCT TATTTTATA CAGTTAAAT TTGCAGACAC TGTCTATTT 420
 AAGNGGTTAT TTTGTTTAA TGGATGGNG ATNCCITNTT AANCACTGGN TTGGNCTGGA 480
 TNGTGAAGG TTTTNCAGG GNNTAGTTCC TGN 513

50 SEQ ID NO:7146

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SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08383

SEQUENCE DESCRIPTION:

GATCTGAGAA TCTTTATTGA GAAAGAGCAC TTAAGAGAAT ATTTTAAGTA TTGCATCTGT 60
ATAAGTAAGA AAATATTTTG TCTAAAATGC CTCAGTGTAT TTGTATTTT TTGCAAGTGA 120
AGGTTTACAA TTTACAAAGT GTGTATTAAA AAAAACAAAA AGAACAAAA AATCTGCAAA 180

SEQ ID NO:7147

SEQUENCE LENGTH:187

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08384

SEQUENCE DESCRIPTION:

GATCAAGAAA CTGGAAAATG TGAAGCAATC TCTATTGAGA TAGCATCTTA GTGTTTTAGA 60
GAAATCAAGA ATTTTAAAA ACAAGAATAT CAACATTGG TTTTGTGTAT AAGTGGTGTT 120
TGTATTAATA TACTTTTCA ATGAACTGTA TAAACTATGT TTTATTAAC TACAATATAT 180
CAGTAAA 187

SEQ ID NO:7148

SEQUENCE LENGTH:133

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08385

SEQUENCE DESCRIPTION:

GATCCAGAGG CGAGAAGCCA CCCTGTTAGA NCTCCTGTCC ATCATCCAGG TAAGTCAACT 60
CTCTCCTTC AGGGCCAATC CCCAGACCTT TTGTTGAGCC AGGNCNNTAT CACCTNTCCT 120
ACTNACTTAA AGN 133

SEQ ID NO:7149

SEQUENCE LENGTH:172

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08386

SEQUENCE DESCRIPTION:

GATCCTTGTC AAAATGAGAT TCCAGGTCCT AGAGAGCTGC TTTNAGGGAG TTCCAGGAGT 60
ACTTACTATT GGCATGCAA TAGGAGAACA GAGACCCGNG GGCTGCTTTG GGGGAGGGGG 120
GAACTCGAGA ATGTATGGAT TTACCTGAAA ACAAATTATT CATTTAATCA AA 172

SEQ ID NO:7150

SEQUENCE LENGTH:250

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08387

SEQUENCE DESCRIPTION:

5 GATCACCATT CAATTGAGT TTCCAGGGGG AAGTGCATGT ATAATGAAAT GATAATGGAC 60
 TTCAATGAAG AATGTCATCA ATTATGTACA TATGTATTN CTTTAAATAC AAAGTGTAAT 120
 TTTGTGCCAG TGAATGGAG TCTGAATAGT TATGTGTTT TTTTATCCCT GGAAATATTT 180
 ATTAAACTTT ATAGTTTATC CGAGTATGTT GTATGCTTTG ACAATAAATG ACTATTTTCT 240
 TCAAAGCAAA 250

SEQ ID NO:7151

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SEQUENCE LENGTH:282

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08388

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SEQUENCE DESCRIPTION:

20 GATCATCACC ACCACGGTTC CTGAGGACAT CATGTCCAAC CGAGGCAATN ACCTCCTGCT 60
 GAAGCTCCTG CAGNATCGGT ATCCCCGGGT GATGGCAGAG GAGGGTCTTC GAGTGGTGAG 120
 GCAGTGGTTG GAGGCCTCCT CACAGCTGGA GGAAGCCTCA NTTTATAGCC GATGGGAGGT 180
 GGAAGAGGAC TGGTGTCTGT NTGCTCTCCG CTCCTACCAG GCAGAACACG GGCCCGACTT 240
 CCCCTGGAGC GTGGGGGAGG ACATGAGTGC AGATGGACGG TN 282

SEQ ID NO:7152

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SEQUENCE LENGTH:391

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08389

SEQUENCE DESCRIPTION:

30 GATCAAAAGTA GAAGCNTTTG AATAATGAAT TTAAGGCCAC GCAAAANCTT TCCTCACCTA 60
 TTGACATGAC ATCTAAAAGA CATTTCGAAC TCGAAAAGCA TAGTGCCCCA AGTATGGTAC 120
 ATTCTNCTCT NACTCCTTTC TCAGTGCAAG TANCTAACAT TCAAGATTGG NCTCTCAAAT 180
 CGGAGCACTG GCATCAAAAA GANCTGAGTG GCAAAANTCA GAATAGTTTC AAAACTGGAG 240
 TTGTTGAAAT GAAAGACAGT GGCTACAAAG TTTCTGACCC AGAGAACTTG TATTTGACGC 300
 35 AGGGGNTAGC AAACCTATCT GCAGNGGTTG TCTCACTCAA GAGNCTTNTA GNCACACAAC 360
 CAGTCTCTGT TTCAGACTCT GGGTAANTTN N 391

SEQ ID NO:7153

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SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08390

SEQUENCE DESCRIPTION:

45 GATCTAAAAA TAATTCTTAA TCATGAATTT AATTCACGAC TTCCTTGTTT TCAGTCTTAT 60
 TCAGCTTACT GTAGGAGATT TTAATANACT AAAGCTTTTG TTGATTATG AGTTAGAAA 119

SEQ ID NO:7154

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SEQUENCE LENGTH:284

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS08391

SEQUENCE DESCRIPTION:

5 GATCTTGTAC CAAGCCAACG GGTNTCCTGG CTCTCCTGCC CACAGGATGA ACATTTTCGG 60
 CTTCCTTAGG AGTTTTGCCC TACCGTATTC CAAAGCGTGT GCTGGTTTCT CATATTGTCT 120
 GTAGGCTCAC TCAGCCCGCA GTTTATGTGT GTGCTTTTTT CTATGAAAAA TGATGTATTT 180
 TGCTACTTCC TGTGTACAAA GTTTTATTGT AAATGTTTTT TGTGCTTTGC ATGAACAGGG 240
 10 GCCACGTTGT TGCAATTGTT TCAGTAGAAC TGGTTTGATT TCTN 284

SEQ ID NO:7155

SEQUENCE LENGTH:289

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS08392

SEQUENCE DESCRIPTION:

20 GATCGAGACC ATCCTGGCTA ACACAGTGAA CCCCCTCTCT ACTAAAAATA TAAAAAATTA 60
 GTCGGGCATG GTGGCGGGCG CTTGTAGTCC CAACTACTCG GGAGACTGAG GCAGAAGAAT 120
 GGCGTGAAC CAGGAGGCGG ANTTGCAGTG AGCCAAGGCG ACAGAGCAGG ACTCTGTCTC 180
 AAAAAATAA AAATAGTGCA CTGTCCTTCG AGAAAGTTTT CTAACATCTA GTAATTTGTA 240
 ACTTAGAAGT GGAGTTGCCT TGTGGATGTC TTTTTCAT TCTGTAGN 289

25 SEQ ID NO:7156

SEQUENCE LENGTH:293

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08393

30 SEQUENCE DESCRIPTION:

GATCCAACTG CAGAGATGGC AGCTGAGTCA TTGCCAGTNT CCTTCGGGAC ACTGTCCAGC 60
 TGGGAGCTGG AAGCCTGGTA TGAGGACCTG CAAGAGGTCC TGTNTTCAGA TGAAAATGGG 120
 GGTACCTATG TTTCACCTCC TGGAAATNAA GAGGANGNNT CAAAAATCTT CACCACTCTT 180
 35 GACCCTGCTT NTTTGGCTTG GCTGACTGAG GAGGAGCCAG NACCAGCAGA GGTACAAGC 240
 ACCTCCCAGA GCCCTCACTC TCCAGATTCC AGTCAGGGCT CCCTGGCTCA TGN 293

SEQ ID NO:7157

SEQUENCE LENGTH:69

40 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08394

SEQUENCE DESCRIPTION:

45 GATCACGATG TAAATAATNA AGCATTTTGG TAGGATGTCT ANNGTAATAA ACAATTTTGG 60
 TACCATAAA 69

SEQ ID NO:7158

SEQUENCE LENGTH:312

50 SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS08395

SEQUENCE DESCRIPTION:

5 GATCTTGGCC TCCCAAACCC CTTATTTTAA AAATACTTTG CGCCTTGCTT TGATAATTTG 60
TATTATGTAT CCAAACGTAA ATNATCTGCT TTCTGCATTA GAATGTAAGC CCCCTGAGGG 120
TTGAGTCAGT CTGTCTTGTG TGCTGTGCCA CGCCTGATGC CCAGCCCAGC AGCATGCTTT 180
GTACACTGAT ATATTGGGTA AATTTTGTG AATAAATTAA GCTCAACTAT TTGTATTCA 240
10 ATAGNTTGAG TTGTATTGCT TCCTGTTCTT CAAGCTTAAA TTTGACCTGT CTAATAAAAA 300
GGAGNAATTA AA 312

SEQ ID NO:7159

SEQUENCE LENGTH:92

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08396

SEQUENCE DESCRIPTION:

20 GATCTTTTGT GGTCTGTAA AAGATACTGA GGAATGTNTT TCAGCCAAGC CAAGAGGATG 60
GTTTCAATAA ACCTAATAAT CTGAAGTTCA AA 92

SEQ ID NO:7160

SEQUENCE LENGTH:61

25 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08397

SEQUENCE DESCRIPTION:

30 GATCTTGCAA TATATACTCA GGAAATTACC ATGGGCAGAA TAAATGCTT TAAAAATAA 60
A 61

SEQ ID NO:7161

SEQUENCE LENGTH:319

35 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08398

SEQUENCE DESCRIPTION:

40 GATCCAACT GNAGAACTTC TCATTATCC CCAAGGCCTC CAGGCAGTAT CCAATGGGGA 60
ATCAGCTCTA AAAGGAACCA GACCAACGTT TTCCAGCCCC TTNATTCTGC TTCNTCTGT 120
NTNAGGAAAG GNTAGAAATN TTCAGGGCAT CATCATACAG GCTCCTCATC TACAAAGTTC 180
CAGTAGCAGT GACGCCTACA CGGAAGANTT GGAAGTCAA ACAGGCTGGG GTCACCTCAN 240
TNGCATCTGA CGCTGTCCAA CCAGAAGTTC GATTTNNTN CTGGGGGTGA AGGTGAAAC 300
45 AGACTGTACT TAAAGGNTN 319

SEQ ID NO:7162

SEQUENCE LENGTH:134

50 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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EP 0 679 716 A1

CLONE:HUMGS08399

SEQUENCE DESCRIPTION:

5 GATCCANAAA TAAGTTTAAC TTACGGAGGC TTCTAGTTCT AAAGATGCAA NGTAAGATGC 60
CAAAGCAGTG GAAAGATTGA AGTCAAACAG TCGGGCCCAT GTGTGTGTCN TACNTCAACC 120
NTTNGTGTGT TATN 134

SEQ ID NO:7163

10 SEQUENCE LENGTH:147

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08400

SEQUENCE DESCRIPTION:

15 GATCTATGTG TCTGTNTGTG TGTCCATCCC GCCGACCCCC CAGACTAACC TCCAGGCATG 60
GACTGAATCT GGTTCCTCTC TTGTACACCC CTCAACCCTA TGCAGCCTGG AGTGGGCATC 120
AATAAAATGA ACTGTCGACT GAACAAA 147

SEQ ID NO:7164

20 SEQUENCE LENGTH:320

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08402

SEQUENCE DESCRIPTION:

25 GATCTAGNAA CTAGNAAATA CTATTTGTCC CAGCAATCCC ATTACTGGGT ATATACCCAA 60
AGGAATATAA ACCATTTAAT TATAAGATA CATGCAGATT TTTATTCATT GCAGCACTCT 120
NNACAATAGC AAAGACACAA TAGCAAATGC CCATCAAAGA TAGACTGGAT AAAGAAAATG 180
TGGTACATAT ACACCATGGA ATACTGTGCA GTGCAGCCAT TACAGCTTTT GGTGATACAG 240
30 TGAATCAGAT TTTNNATTAA TTCTTTTAAT TGGTTATTAC TGNCGTGGA NNAGTAATGG 300
TTTGATTGG NATCCTTGNN 320

SEQ ID NO:7165

35 SEQUENCE LENGTH:74

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08403

SEQUENCE DESCRIPTION:

40 GATCCATATT TTAATTTGCA ACCCTGTTCC CTATGATACC TATCTGTCTA TGAATGAAAC 60
AAAGGTTTTA CAAA 74

SEQ ID NO:7166

45 SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08404

SEQUENCE DESCRIPTION:

50 GATCCAAAGA ACTTCTGTTA TATGGGTTAT AGCTGTTAAT ATTTGTCATA TTCGAAATGG 60

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EP 0 679 716 A1

AAATAAGATT TTAAGGTATT TTAATAAATC AGTNCAAAAC CATTGTATNT TGACATGAAT 120
AACACTTTTA TGAATAAATC TATATTCCAA AACAATAAAA TTACCAAAAA GTTGCAAA 178

5 SEQ ID NO:7167
SEQUENCE LENGTH:98
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08405
10 SEQUENCE DESCRIPTION:
GATCACAGAT TTCATCAGGA TTGAGCTGCG TGGTAAGCTC GCCACTCTGG ACAAGTCACA 60
GGGTACCCAT TATTAGCAA TAAAGCTTT AACTCAAA 98

15 SEQ ID NO:7168
SEQUENCE LENGTH:110
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08406
20 SEQUENCE DESCRIPTION:
GATCTCTGTG GCCTAGGTTT TGTACATACA GAAACTGCAT GGTATTTAAA TTATTGTTTG 60
TCTCTGATGA TGTATGCAGT TTCTTAAAA ACAACCAAAA AAAAAGTAAA 110

25 SEQ ID NO:7169
SEQUENCE LENGTH:298
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08407
30 SEQUENCE DESCRIPTION:
GATCCTGAAG AGCGCTGAGG GACGGGTGCT TCGNCGANCA GCACCAGCGA NACGTCAAAC 60
TCATGAGACA GATGCTAATG GATGCCGNCC TCCCTANTTG TCCACTGCCC CAGCCACATC 120
ATCCCTGTGC GGGTTGCAGA TGCTGCTAAA AACACAGAAG TCTGTGGATG AGCTAATGAG 180
CAGCCATAAC ATCTACGTGC AAGCAATCAN TTACCCTACG GTGCCCCGGG NAGAAGAGCT 240
35 CCTTCGGGNT TGCCNCNACC CTTNNGGGGG GACCCAGGA TTGNTGGAAC TAANTTCN 298

SEQ ID NO:7170
SEQUENCE LENGTH:329
40 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08408
SEQUENCE DESCRIPTION:
GATCCACCCG CCTCGGCCTC CCAAAGTGCT GGGATTATAG GCGTGACCNC TGCACCCGGC 60
45 CAAAAGTTGA TTTTAAATTA CATAAAATC GTAAAACTT CTAGTAAAAA CTTGATTNNG 120
NGANTACAGT TATATTTTAA AACCTTAAGG TGACAAGCAT TTTCTATGCC TAAATCTTCA 180
TTGGTTTGCC TGGAAAGAGT CTCTGTAAA AGATTTTCCA TATTCAAAGT AAAAGGAAAG 240
ATTTCTTGCT TTCTAATTGT CTTTGGACA CATGCCTATT TTCTTTGAGG TATAANCCTT 300
50 TAGATGTGAA ANATGTAATT TCCATTCCN 329

55

SEQ ID NO:7171

SEQUENCE LENGTH:213

SEQUENCE TYPE:nucleic acid

5 TOPOLOGY:linear

CLONE:HUMGS08409

SEQUENCE DESCRIPTION:

10 GATCCAGATT TTTCTGTTG TGTCTGAAGA GAACCATGAC ATTTAGAAGT ATATTGGTAA 60
 TCTATTAGGT CCATTGGCAA AGTATATTGG TCCATATTCA AACCTATTCC AAAAGGTTAG 120
 AAGTGTTTAA GATTCCTTTA TTGTGGTACC ATGTCTGTTT ACCTATGCTT ATGAGCAACA 180
 ATAANTTACT AGTTTACCTT CTGGAATTTT AAA 213

SEQ ID NO:7172

15 SEQUENCE LENGTH:332

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08410

SEQUENCE DESCRIPTION:

20 GATCTGGTGG GCAGTCGAAC CATGGTGAAC TCCACCTCCG TGGAATAAAC GGAGATTCAG 60
 CGTGGGCGAC TGAATCCAGC ACGTCTGTGT GAGTANCGGG ACAGTAAACA CTCCACATNN 120
 NNTCAGTTTT TCACTTCTAC CTACATATTT GTATGTTTNN NTGTATAACA GCCTTTTCCT 180
 TCTGGTTCTA ACTGCTGTTA AAATTAATAT ATCATTATCT TTGCTGTTAT TGACAGCGAT 240
 25 ATAATTTTAT TACATATGAT TAGAGGGATG AGACAGACAT TCNCGGGNT ATTNCTTTTA 300
 ATGGGCACAA AATGGGCCCT TGCCTCTAAN GN 332

SEQ ID NO:7173

SEQUENCE LENGTH:332

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08411

SEQUENCE DESCRIPTION:

35 GATCCAGAGG CTCAGTGAAC CCCATCAACT TGGTGGCCCT GGTGTCTCAC ACTTGATATCC 60
 TTCTGCCCTC GAGACCTGGC ACAGCAGTAT CCCTTGAAGA AATCCTGAGG CTTTGTAGAG 120
 TGTCCTTGA CCATGTTTAA TAATCTTCC CTCCCCTGCT TGTNTATTTT TTTCTCTTCA 180
 CGGCTCTTCC TATACCTTAG GCCAGTCTCA AGCACTCACT GGAGACCCTT GGGCCTTGGG 240
 CGACCATTGA GTCCTAGTCT CCCTTGTTTG TGCCCCTGTA GGAGGTAGGT CCTTTTNTCC 300
 40 TCCGGCCTAG TAGGGGACCT TGGGTAACAT TN 332

SEQ ID NO:7174

SEQUENCE LENGTH:127

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08412

SEQUENCE DESCRIPTION:

50 GATCTGCTTT GCAGAGGAAA TAATTGTTT TTTCTCATGT TTCATCTTCT TTTTATGTAA 60

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ATATGTAATA CTTTCCTATA TTGCCCTTTG AAATNTTTGG ATAAAAGATG ATGTTTAAAG 120
TTCCAAA 127

5 SEQ ID NO:7175
SEQUENCE LENGTH:144
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS08413
SEQUENCE DESCRIPTION:
GATCTGCCCG CCTCAGCCTC CCATTGTTGA CCATTTTAT ATGTTTATTT ACCTATGTGG 60
TTTTCTTTTC TCATAAAATG CTTGTTTCATA TATTNCCCC ATTTCTACTT ATCTNGTTCT 120
TATTAAATNG CCAAAGTGCA TAAA 144

15 SEQ ID NO:7176
SEQUENCE LENGTH:347
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
20 CLONE:HUMGS08414
SEQUENCE DESCRIPTION:
GATCATCTCT AAAATTAAAA AAATTAATAT TAAATGTTGG ACCAAGGATT TCAACCATGC 60
AGTATGTTGC TTCTGGGGTC TGCTGTCCTA TTCCAGCCCT AGTGAATAGT TAATGCCTTG 120
25 AACTATTCTC ATCACCACAG GTTGCCAGGC CACCAAATAA CGAAGCCAAT CCAGGATTTG 180
TCCATACAGA AAATGTGTGC GCTCCCAGCT AAATCTCAGT TAAGGAGGTT GTTCTATATA 240
CAGCCAAGTA GCAGAAATAT TCATAAATGT CATTGCAAA TATAATAAAC ANTGTAATGA 300
ATGGGTATTT CCTTCTTGT TAATCTATG TGCTCAATTA AAAGGNN 347

30 SEQ ID NO:7177
SEQUENCE LENGTH:213
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
35 CLONE:HUMGS08415
SEQUENCE DESCRIPTION:
GATCATACTA ATAATTTAAT ATTTGAATTG TATGGAAGTA CAATTCAGTA TCATTTTACA 60
TATGGTATAT TGTGATGCTG TATCATATTT TATGTTACGG TTTATAAGAA AAGCTCCTAG 120
GTATAAAATG CTACATAGCA GGAACCTGGT TTTCAATGT TATTATTCC TACTGTTTTT 180
40 GACGTAACGG CAATAAAATT TGTTGAACC AAA 213

45 SEQ ID NO:7178
SEQUENCE LENGTH:161
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08416
SEQUENCE DESCRIPTION:
GATCTTAAAG AGAGAATAGA ATCTTTAATT GACCGGGACT ACATGGAAAG AGATAAAGAA 60
50 AATCCAAACC AGTACAATA TATTGCATAG AATGTTGGCC TTGCAGCATT TGGTGTCATA 120

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TGCAGTAGCC AGTGGATAAA CTAACCTGTT GATTCAATAA A

161

SEQ ID NO:7179

SEQUENCE LENGTH:69

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08417

SEQUENCE DESCRIPTION:

GATCATGTGC AATATTTCTT ACTGTGCCGA GAAGCCACAA TGAGCGAGAT TAAAGCTGTT 60
 TAACACAAA 69

SEQ ID NO:7180

SEQUENCE LENGTH:348

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08418

SEQUENCE DESCRIPTION:

GATCTCTGTT CCTTTGGCT CTAATATGCT ACAACTGTAG GCCAATTATC ACTTTACCAA 60
 TTAAGAGTTA GGCCAGATAA GTGAAATTTA ACTTAAGGGC ACACAGCTAA TAAGTAATAG 120
 GCCTAAACTG GATTTCCTTA TTCCAAATCC TGTCTTTTCC CCACTATTCC ATTAGACCCC 180
 ACAAATGTTA GTTGTGTGTG TGTGTGTGTG TGTTTTTAAT CACTGTAACC GGGTGCAITT 240
 TTTTAAGGCA AAATTTCTCC CTTATCTACT GTGATGACTT CAGAAGATAC ANTGGTCCCA 300
 GGGGCCAAGT AGAAAGCATT TTAAAGNTT AATCTGAATT AAGCTGAN 348

SEQ ID NO:7181

SEQUENCE LENGTH:132

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08419

SEQUENCE DESCRIPTION:

GATCCACTTC TGTAATTAAG TACNTGGTTG TCTCGTGATG CGTCTACAGT TATTATAGT 60
 TACAACCAT ACCNGNCACT GTAGATACAC ATATAAAAT AGNTGTTNGG TATCCATAGT 120
 TNCGCTTGTT CN 132

SEQ ID NO:7182

SEQUENCE LENGTH:85

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08420

SEQUENCE DESCRIPTION:

GATCTCATCA CTGCACTCTA GCCTAGGTGA CGGAGCGAGA CCCTGCCGCT AAATAAATAA 60
 ATAAATAAAT AACATAGTAG TGAAA 85

SEQ ID NO:7183

SEQUENCE LENGTH:224

EP 0 679 716 A1

SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08421

5 SEQUENCE DESCRIPTION:
 GATCATGGAC TGGTGCCTTT GCATTCAGAA GGAGAGCTGT CAGCGTANAC CGAATTCAAG 60
 ACCAAGGCGT GCTACCTGAG CTGACAGCTT TTTGAAAGCC GAGCTGTTTC TGAACCATGT 120
 ACATACATGT TCTGAAACTT TCTCATCATT TTATGAGTAC TGTTTCATTGA GAGATGACAA 180
 TGAAGATTAG ATGAAATTGG AAATAAACCA ACATTGTTTA CAAA 224

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SEQ ID NO:7184
 SEQUENCE LENGTH:38
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

15 CLONE:HUMGS08422
 SEQUENCE DESCRIPTION:
 GATCTCTGCA GTATTAAAAA GATGTACTCC CAATTAAA 38

20

SEQ ID NO:7185
 SEQUENCE LENGTH:67
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

25 CLONE:HUMGS08423
 SEQUENCE DESCRIPTION:
 GATCTTTGGC AGTGCCAGCA GGTAAATTT TGACCTGCTC AATTAATAA AAACACTGGC 60
 GTTTAAA 67

30

SEQ ID NO:7186
 SEQUENCE LENGTH:117
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

35 CLONE:HUMGS08424
 SEQUENCE DESCRIPTION:
 GATCTTCAA GAAGAGAATG TAATTATAC CATGAATATG TTATTTTTTC ATGTTGGAGC 60
 ACTGAAATAC TTTCAGTTTG TTTTCTTATT GTTTAAATAA AATTTTAAAT TCTTAAA 117

40

SEQ ID NO:7187
 SEQUENCE LENGTH:231
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

45 CLONE:HUMGS08425
 SEQUENCE DESCRIPTION:
 GATCTTTGTT ATTTTAGGGG GGAAATCACA TGGTATCTAG CATGGGACAA AGCAGCAAAA 60
 TAAACCAAAA GGACAATCTC TATTTTATAT AGAAAATAAA CATACTTTNC TGCATCCTGT 120
 GTACTTTAAG TATATCTATA TTTNTNANGG GTTCATACTG TGTTGANITT NCCTNATGAN 180
 ATAGTCACTT CCCCAGTGTA TTTTAATGCA AATGCATATN CTATAANNTA N 231

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EP 0 679 716 A1

SEQ ID NO:7188

SEQUENCE LENGTH:197

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08426

SEQUENCE DESCRIPTION:

GATCTCTGTT CTAAGAAAAG GAGTGTGCCT TGCATTTAAA AGGAAATATT GGTTCCTAGG 60
 GAAGGGAGGA GGCTAAATAA TTGATACGGA ATTTTCCTCT TTTGTCTTCT TTTTCTCAC 120
 TTAAGAATCC GATACTGGAA GACTGATTGA GAAAAGTTT TAACATGACA TTAAATGTGA 180
 AATTTTAAAA ATTGAAA 197

SEQ ID NO:7189

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08427

SEQUENCE DESCRIPTION:

GATCAGGAGA CAGGGAGGCC CCGCACATCA CACAGATAAA GTCAGACAAT TGTAATTAAT 60
 ACTTTTGCTG CCTCAAGTTG TTTTAAAAAT AAAGTACTTT GAAATGCATG AGAAA 115

SEQ ID NO:7190

SEQUENCE LENGTH:329

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08428

SEQUENCE DESCRIPTION:

GATCCTTGTT GGCATTATTC TAACTGATAC GTAGACACTT ACTTGGAAN NNNNGGACAT 60
 TATATTAAAT GAGTGTATC TGTGAAATTG GTTATATTAG GTGGCTTGAC TAATGTTTTT 120
 CCTATAATTG TATATGGACT GCATTTTAA AAAAAACCGC ATTTGCCTTT ATGCTAGATT 180
 GTAAAAAATT ATATTAGAAT GCATAAGACA TGTTCNCCN TCATATGCTA GACTTTCCT 240
 AGCATTTTCTG ATTTCTGTGT TGTGAGTGTG TGATTTTAA ACCGGAATTT GGTAAAAA 300
 AAATCTGGTG GTAATATATG TGAGAANTN 329

SEQ ID NO:7191

SEQUENCE LENGTH:353

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08429

SEQUENCE DESCRIPTION:

GATCTTCATT CCAAATTTA CTGCATGGAA ATGACTAATA ATGTGCATAA AAAGTTAACT 60
 ATAAGGATGC TCACTGCAGG GTGGCTTATA TTAACACAAA TTCACAAACA ACTCCACTGT 120
 TCCAGCACAG CAGTGTGTTG TAAATCATGA CATGTTTCTA TGCTCAATTA CTATCCAAT 180
 TTTGAGAATT AGGTTGGAGA TATGTAATTN CCAATATGAA AATAAATTC CTATATNCTA 240
 TTTAGTAAAA NTAATTCATA AATNTCCATT TTNCAACA CTTATGAAT TTNTTCCAAA 300

ATACANATGT TATCTATCCA TTTNGGAATT AGGANTGGTT NNNATCATTT TGN 353

5 SEQ ID NO:7192
SEQUENCE LENGTH:352
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08430

10 SEQUENCE DESCRIPTION:
GATCTCAGTT TTTCCATCAA AATTATAATA TGCTCATGAA AATAATATTA ATTTGCCTTC 60
CCTTTGCAAA CACCGGCAGT TGAAAGGAAA AGGACGGGGA ATGTGANNNN AAAGAGACCG 120
CCTGGAATAA ATGTCCCCCT ATGATTCTTT AAGGCAGTGG TTCTCGAGCT TGAATTTTCA 180
15 TTAGGAAATT CTGTGAGGNG NTTGTAACCA GATTTCTGGG TCTGCCACAT GCACCTATCT 240
NTNGCTGAAT TGCTTTAATA GAATAATGAG AGCAAGTTTG TCTAACTAAT ACCAACCTGN 300
CANCTTGAAT ANCAATAAAA TGCAATTTGG TACATAAATT ATAATGCTGC NN 352

20 SEQ ID NO:7193
SEQUENCE LENGTH:348
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08431

25 SEQUENCE DESCRIPTION:
GATCCTGGAG AGGAGAAATC CTGGCCTCTG CTCATGCGCA GGTCAACAAC GGGCTGGAAG 60
TGCGGTTNAG CTCTCTGCCA CTTTCTTCAA TGTAAGAAAGT AGGCATCAAA GATACGACTT 120
CTACTATATA CATTTNTNTG TCCCTGAGAA CAGAGAAACG TAACCCTGTA GGGGACTGGT 180
TACAGAGGAC CTCCTGGAGC ATCTGCCCCA TTCCTCCAAG TCCAAGCACA GCCATGCTGA 240
30 GTGGAAGCNA GGCCACCATC TGAGTGGATT GGTCCCAAGT NTGTAATGAG GAAAGTGGCC 300
AGGTGCCGGC ACAGTGCCCTC TCCCAGAGCC TCAAGAAGGG CCATTNGN 348

35 SEQ ID NO:7194
SEQUENCE LENGTH:349
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08432

40 SEQUENCE DESCRIPTION:
GATCACAACCT CTCAGTCTAC CTGGAACACC CCACCCAACA TGCCTGCTGC CTGGGGACAT 60
GCCAGTTTCA TCAGTCTCTC GCCCTACCTC ACAAGCACCC GAAGCTTGTN TCCAATGTCT 120
GGACTTTTTG GTTCCATCTG GGCCCCGCAA AGCGATGTGT ATGAAAATTG CTGCCCCATC 180
AACCCACCA CGGAACATTG GACCCACATG GAAAACCAAG CGGGTCGTGT GCAAGGAATA 240
CTACCCGGGG TTCAACCCGT TTCGCGCCTA TATGAACCTG GACATATGGA CTACCACAGC 300
45 GAATAGGAAT GCAAATTTCC CACTGTCTAG AGACTCGAGT TACTTGTTNN 349

50 SEQ ID NO:7195
SEQUENCE LENGTH:342
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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EP 0 679 716 A1

CLONE:HUMGS08434

SEQUENCE DESCRIPTION:

5 GATCTGCCTG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCCTGAGCCA CTGCGCCCAG 60
 ACCAAAAAGTT TTTTAAATG GATGTTTTAC AGATAGAACT AAATTCTTCA TTTACCTCAC 120
 TTAATTTCTG AAAACACTGT GTCCTCCAAC TGCTCTGTAT TCCCAAAGAT TAAAATTAGC 180
 CTTGGGGAGC AGAGCTGGTT CCTCGTAAAC CCCTGTGAGT GCCCAGACCC TTTGGAGGAG 240
 GTTCTCAGTG GGCTTTTGCC TGCTCCACA GATGTAACCC ACCCTTCCTG CTGCTCCTAA 300
 10 GACCACCATG AGGAAGGCTG GGAATTGGCT CTTGAATTAA NN 342

SEQ ID NO:7196

SEQUENCE LENGTH:364

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS08435

SEQUENCE DESCRIPTION:

20 GATCTGCATT TNNAGGTTCC GAGCCTGACC CCTGGAAGT ACCAGCGCTC GATTGTNAGC 60
 CTTGGCCTGG GGTTTTAACC TTGCCAGTGA AGTTTCGGTT TAAAGTGAT TAAATGTCAC 120
 TTCTCATCA GTTCACTTC TGGAGGTTTT CTTATCCTAC TCCCTGGTGC CAGGGACGTA 180
 CCTGGGAGTT TGAATCAGGC CCATTTGAGC GTGGCAGCCG TGTGGGTGA AGGTCCGGGG 240
 CTCGGTGAGG CACTGGGGGG GTTTTCGGGA GGAAATGAA AATGCTTCTA GAATGAGTGA 300
 ACCACATCAT AGCTCTCACT GTTTTTTCAA TAGCTACTTT TTTTAGCAGA CACAGAGCC 360
 25 ACAN 364

SEQ ID NO:7197

SEQUENCE LENGTH:30

SEQUENCE TYPE:nucleic acid

30 TOPOLOGY:linear

CLONE:HUMGS08436

SEQUENCE DESCRIPTION:

GATCTCAAAA TAAATTCAGA AAGAAATAAA 30

SEQ ID NO:7198

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

40 TOPOLOGY:linear

CLONE:HUMGS08437

SEQUENCE DESCRIPTION:

45 GATCTGCCTA GCCAACTTTC TTAACCCAAG CCCAACTGA AAGTCTAAAA GATGTATTTC 60
 TGGGGAATTA CCCACCTCA ACATTCTCAG GTTNCCAGT GTNCTCTGTC TGTNTCAGTA 120
 TTTTAAAAAC ACTAACTCAA TAATNCTCAA AAATCAAAGT CTGCTTTNAT NATCTGGTAA 180
 TAAAATAATA GGCAAA 196

SEQ ID NO:7199

SEQUENCE LENGTH:102

50 SEQUENCE TYPE:nucleic acid

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EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS08438

SEQUENCE DESCRIPTION:

5 GATCCGCCCA TCTCCGTCTC CCAAAGTGCT GGGGAATNACA GGCCTGACAN CCAAACCCGG 60
CCTGATTAAA GTTAAATAAA TACTAGTTCC CTTCTCGTCA AA 102

SEQ ID NO:7200

SEQUENCE LENGTH:341

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08439

SEQUENCE DESCRIPTION:

15 GATCAGTGCA TTTAGACATC CAGAAGTTAC TTCCACTATT GAGGAACTAT GTAGACATGA 60
ATTTAAGCTT GTACATGTGC CAATCTTGTT AATGTCATT GACCACTGAT TCACATAGAC 120
AGACATTAAAC GTCTGATGCC TCAGGTTGAT GGCCTAAGTT CTTCTAGTG TCTTAACATT 180
TATGANTTA TGTGTTGACTT GAGGGGCATT TCAGCAAAGC TGTGNAGGAA AAGTAGGTTT 240
TGGNCTGATG TCTGCTTTGT NCCATAGACA TTTTGGAGCA TAAGGNAGTA TCTNCTTCTG 300
20 CTATATGTNC AGGGCTTGTC CCCAAATNAA TTCCTGATTT N 341

SEQ ID NO:7201

SEQUENCE LENGTH:110

25 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08440

SEQUENCE DESCRIPTION:

30 GATCTNCTAC AGTTCTNCA AGCCTAGACA ACCTAAGAAA CTTTACTATC AGCAGCTTAA 60
GTGAAAATC ACAGACTTTA AGAACAGGCG AAGTTTAAAN TGTATATNNN 110

SEQ ID NO:7202

SEQUENCE LENGTH:45

35 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08441

SEQUENCE DESCRIPTION:

40 GATCCAAAGA AATAATCCAA AATAAAAAGT TATATCCAAG ATAAA 45

SEQ ID NO:7203

SEQUENCE LENGTH:202

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08442

SEQUENCE DESCRIPTION:

45 GATCCACAGT GGAGTTTATG TAATTATATT TTNTTGATTT CTTGATTTTG TTTTCTGGTA 60
TAAAAGTAGA GATAATGTGT AGTCATTCT AATTTAGTGA AACCAATTGT AATAATNTG 120
50 GAAATATTTT GTCTTTAAGT GTAAATATTT AAAAAATTGG CATACCCTAA TGTNAATAAT 180

55